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**REGARDING ANSWER KEY FOR ICMR-JRF EXAM. HELD ON 08.07.2023**

Dated: 18.7.2023

**NOTICE - (ICMR-JRF-2023)**

This is for the information of all the candidates appeared in **ICMR-JRF-2023** Computer based examination (CBT) conducted by the PGIMER, Chandigarh on 8.7.2023 at various centres across the country. **QUESTION PAPER AND ANSWER KEY** is uploaded on the website for the information of the applicants. If a candidate finds any discrepancies/doubts regarding the answer key of the question paper, he/she may communicate the same to Administrative Officer, Academic Section, PGIMER, Chandigarh, via e-mail i.e. [chandra.ganesh@pgimer.edu.in](mailto:chandra.ganesh@pgimer.edu.in) in the following format:

Roll No.	Name, address, e.mail, Mobile No. of the Candidate	Stream	Question Number & section	Question issue and description.


Please note that for raising objections/doubts a fee of Rs.500/- per question is payable, if the objection/doubt is found valid/justified then the fee (@Rs.500/- per valid objection/question) will be refunded. If objection/doubt found invalid the fee will be forfeited.

The objections/doubts can be sent/submitted till **22<sup>nd</sup> July 2023 up to 11:59 P.M.** No objection/doubt raised beyond this time limit will be entertained.

Fee may be paid through online/RTGS in the account details as under:-

Account name : Director, PGI Private Grant Account  
Account Number : 1041-3583830  
IFSC Code : SBIN0001524  
Bank Name : State Bank of India, Medical Institute (MI)  
Branch Sector-12, Chandigarh

A proof of payment of fee i.e. screenshot of successful transaction/RTGS number must be enclosed with the objection, failing objection will not be considered. Objections/doubts received within above prescribed period will be placed before the committee of the experts for their consideration. If these objections/doubts found valid then the decision/ remedial action will be uploaded on the official websites of both the Institutes i.e. [pgimer.edu.in](http://pgimer.edu.in) & [icmr.nic.in](http://icmr.nic.in) for the information to all concerned. No separate communication will be issued to individual. Decision of the Committee of experts will be final in this regard.

  
REGISTRAR  
Co-ordinator  
ICMR-JRF Exam

# Postgraduate Institute of Medical Education and Research PGIMER, Chandigarh

## Notations :

- 1.Options shown in green color and with ✓ icon are correct.
- 2.Options shown in red color and with ✗ icon are incorrect.

<b>Question Paper Name :</b>	Life Sciences 08 July 2023 Shift 1
<b>Subject Name :</b>	Life Sciences
<b>Creation Date :</b>	2023-07-08 13:17:20
<b>Duration :</b>	120
<b>Total Marks :</b>	125
<b>Display Marks:</b>	Yes
<b>Share Answer Key With Delivery Engine :</b>	Yes
<b>Actual Answer Key :</b>	Yes
<b>Calculator :</b>	None
<b>Magnifying Glass Required? :</b>	No
<b>Ruler Required? :</b>	No
<b>Eraser Required? :</b>	No
<b>Scratch Pad Required? :</b>	No
<b>Rough Sketch/Notepad Required? :</b>	No
<b>Protractor Required? :</b>	No
<b>Show Watermark on Console? :</b>	Yes
<b>Highlighter :</b>	No
<b>Auto Save on Console?</b>	No
<b>Change Font Color :</b>	No
<b>Change Background Color :</b>	No
<b>Change Theme :</b>	No
<b>Help Button :</b>	No
<b>Show Reports :</b>	No
<b>Show Progress Bar :</b>	No

## Life Sciences

<b>Group Number :</b>	1
<b>Group Id :</b>	986068872
<b>Group Maximum Duration :</b>	0
<b>Group Minimum Duration :</b>	120
<b>Show Attended Group? :</b>	No
<b>Edit Attended Group? :</b>	No

<b>Break time :</b>	0
<b>Group Marks :</b>	125
<b>Is this Group for Examiner? :</b>	No
<b>Examiner permission :</b>	Cant View
<b>Show Progress Bar? :</b>	No

## Aptitude

<b>Section Id :</b>	9860681271
<b>Section Number :</b>	1
<b>Section type :</b>	Online
<b>Number of Questions :</b>	50
<b>Number of Questions to be attempted :</b>	50
<b>Section Marks :</b>	50
<b>Enable Mark as Answered Mark for Review and Clear Response :</b>	Yes
<b>Maximum Instruction Time :</b>	0
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	9860681406
<b>Question Shuffling Allowed :</b>	Yes
<b>Is Section Default? :</b>	null

**Question Number : 1 Question Id : 98606863410 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

A beaker is filled to the brim with water at 4°C. This water will overflow if its temperature is:

**Options :**

1. ✘ Increased
2. ✘ Reduced
3. ✔ Either increased or reduced
4. ✘ None of these options is correct

**Question Number : 2 Question Id : 98606863411 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Mangoes can be ripened quickly by using:

**Options :**

1. ✔ Calcium carbide
2. ✘ Calcium carbonate
3. ✘ Calcium chloride

4. ✘ Calcium sulphide

**Question Number : 3 Question Id : 98606863412 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which colour of insulation covering is there on the earth wire that goes from the main switchboard to our rooms?

**Options :**

1. ✘ Red
2. ✘ Black
3. ✔ Green
4. ✘ Yellow

**Question Number : 4 Question Id : 98606863413 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

A relationship between two biological organisms, where one organism benefits while the other remains unaffected, is termed:

**Options :**

1. ✘ Predation
2. ✔ Commensalism
3. ✘ Mutualism
4. ✘ Parasitism

**Question Number : 5 Question Id : 98606863414 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Ethanol as a viable bio-fuel can be obtained from:

**Options :**

1. ✘ Potato
2. ✘ Rice
3. ✔ Sugarcane
4. ✘ Wheat

**Question Number : 6 Question Id : 98606863415 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Activated charcoal can be used to remove colouring matter from pure substances by:

**Options :**

1. ✓ Adsorption
2. ✗ Bleaching
3. ✗ Oxidation
4. ✗ Reduction

**Question Number : 7 Question Id : 98606863416 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following is correct regarding the explanation of blue colour of the sky?

**Options :**

1. ✓ The blue light is more scattered by the air molecules in earth atmosphere giving it a blue appearance
2. ✗ The red light is more scattered by the atmospheric air molecules and becomes invisible, leaving only the blue light reach the observer
3. ✗ Dr. CV Raman was awarded the Nobel prize for describing this phenomenon
4. ✗ The blue colour of the sky is due to the reflection of light from the oceans and seas

**Question Number : 8 Question Id : 98606863417 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following metals is an important constituent of the water purification agent zeolite?

**Options :**

1. ✓ Aluminium
2. ✗ Gold
3. ✗ Silver
4. ✗ Copper

**Question Number : 9 Question Id : 98606863418 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the muscles in our body has a name that relates it to tailoring?

**Options :**

1. ✗ Peroneus
2. ✗ Hamstrings
3. ✗ Trapezius
4. ✓ Sartorius



**Question Number : 10 Question Id : 98606863419 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

What colour is the best to wear to stay cool on a hot and sunny day?

**Options :**

1. ✘ Black
2. ✘ Blue
3. ✘ Orange
4. ✔ White

**Question Number : 11 Question Id : 98606863420 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

A herpetologist would be studying which of the following?

**Options :**

1. ✘ Butterfly
2. ✔ Snake
3. ✘ Blood
4. ✘ Liver

**Question Number : 12 Question Id : 98606863421 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following metals is commonly used to increase the strength of steel alloys?

**Options :**

1. ✘ Bismuth
2. ✘ Boron
3. ✔ Molybdenum
4. ✘ Tin

**Question Number : 13 Question Id : 98606863422 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Leather is prepared from which portion(s) of the skin?

**Options :**

1. ✘ Dermis alone

2. ✘ Both dermis and epidermis
3. ✔ Dermis and subcutaneous fatty tissue
4. ✘ Subcutaneous fatty tissue and underlying muscle

**Question Number : 14 Question Id : 98606863423 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Humans have the ability to detect and discriminate at least 10,000 different odorants because we have one of the most evolved \_\_\_\_ system.

**Options :**

1. ✘ Auditory
2. ✘ Gustatory
3. ✔ Olfactory
4. ✘ Tactile

**Question Number : 15 Question Id : 98606863424 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

The pH of gastric acid (HCl) in the human stomach lumen can be as low as 1.5. Still, normally, it does not corrode the gastric mucosa because:

**Options :**

1. ✘ This pH is non-corrosive for the cells of the stomach
2. ✔ Mucosa secretes protective mucus that lines the surface
3. ✘ Humans take acid-lowering medications all the time to keep pH high
4. ✘ Gastric secretions contain milder acids as well which neutralize the strong acid (HCl)

**Question Number : 16 Question Id : 98606863425 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

A picture (year 1720) of personal protective equipment (PPE) is shown: To which epidemic was this related?



Options :

1. ✘ Influenza
2. ✘ Smallpox
3. ✘ Epidemic typhus
4. ✔ Plague

Question Number : 17 Question Id : 98606863426 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.25

Question Label : MCQ

A key tool used for determining the age of prehistoric samples is:

Options :

1. ✘ Forensic calibration
2. ✘ Bone age determination
3. ✔ Radiocarbon dating
4. ✘ Todd's method

Question Number : 18 Question Id : 98606863427 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.25

Question Label : MCQ



The Nobel Prize in Medicine is actually named as Nobel Prize in:

**Options :**

1. ✘ **Medicine or Surgery**
2. ✔ **Physiology or Medicine**
3. ✘ **Medicine or Pathology**
4. ✘ **Chemistry or Medicine**

**Question Number : 19 Question Id : 98606863428 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following is an egg laying mammal?

**Options :**

1. ✘ **Racoon**
2. ✘ **European badger**
3. ✘ **Three-toed sloth**
4. ✔ **Duck billed platypus**

**Question Number : 20 Question Id : 98606863429 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

The full form of RT-PCR is:

**Options :**

1. ✘ **Reverse-time polymerase chain reaction**
2. ✔ **Reverse transcriptase polymerase chain reaction**
3. ✘ **Real-transcription polymerase chain reaction**
4. ✘ **Real-time polymerase chain reaction**

**Question Number : 21 Question Id : 98606863430 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which among the following radiofrequencies is most commonly used in global air navigational systems?

**Options :**

1. ✘ **Very Low Frequency (VLF)**
2. ✔ **Very High Frequency (VHF)**
3. ✘ **Tetra-Hertz Frequency (THF)**
4. ✘ **Ultra-High Frequency (UHF)**

**Question Number : 22 Question Id : 98606863431 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which part of the earth is suitable to witness the natural phenomena of dynamic light displays called 'aurora'?

**Options :**

1.  Near the arctic and Antarctic
2.  Closer to the equatorial regions
3.  Sahara Desert
4.  Mongolia

**Question Number : 23 Question Id : 98606863432 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

A mixture of oxygen with this gas reduces oxygen density and can be used in hospitals?

**Options :**

1.  Nitrous oxide
2.  Sevoflurane
3.  Nitric oxide
4.  Helium

**Question Number : 24 Question Id : 98606863433 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following provided the major clue that led to the recognition of the double helical structure of DNA?

**Options :**

1.  Xray crystallography images
2.  Electron microscopy of dividing cells
3.  Transmission electron microscopy of meiosis
4.  Polarizing microscopy

**Question Number : 25 Question Id : 98606863434 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Alfred Nobel, the founder of Nobel prizes was once called the 'merchant of death' for which of the following inventions?

**Options :**

1. ✘ Gun powder
2. ✘ Cyanide
3. ✔ Dynamite
4. ✘ Hydrogen bombs

**Question Number : 26 Question Id : 98606863435 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following is the primary reason for the tremendous energy generated from the Sun and the other stars?

**Options :**

1. ✔ Nuclear fusion
2. ✘ Nuclear fission
3. ✘ Electromagnetic effect
4. ✘ Combustion of inert gases, especially helium

**Question Number : 27 Question Id : 98606863436 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following is not a component of oral rehydration solution?

**Options :**

1. ✘ Sodium chloride
2. ✔ Sodium carbonate
3. ✘ Potassium chloride
4. ✘ Glucose

**Question Number : 28 Question Id : 98606863437 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Most abundant organic polymer on earth is:

**Options :**

1. ✘ Collagen
2. ✘ Starch
3. ✔ Cellulose
4. ✘ Alginate

**Question Number : 29 Question Id : 98606863438 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following salts is soluble in water at pH 7.0?

**Options :**

1. ✓ Copper sulphate
2. ✗ Barium Sulphate
3. ✗ Silver Chloride
4. ✗ Lead Sulphate

**Question Number : 30 Question Id : 98606863439 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following microbe helps termites digest Cellulose?

**Options :**

1. ✗ *Fibrobacter succinogenes*
2. ✗ *Ruminococcus flavefaciens*
3. ✓ *Trichonympha campanula*
4. ✗ *Pseudomonas putida*

**Question Number : 31 Question Id : 98606863440 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

The Xanthophyte (Yellow Green Algae) cell walls are typically made up of:

**Options :**

1. ✗ Chitin
2. ✓ Cellulose and pectin
3. ✗ Starch
4. ✗ Xylan and chitin

**Question Number : 32 Question Id : 98606863441 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Spectacles used for viewing 3D films have:

**Options :**

1. ✓ Polaroids

2. ✘ Concave lens
3. ✘ Convex lens
4. ✘ Bifocal lens

**Question Number : 33 Question Id : 98606863442 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Acrylamide is a substance that forms through a natural chemical reaction between sugars and asparagine in plant-based foods during high-temperature cooking, such as frying, roasting, and baking. It is important to know about this chemical because:

**Options :**

1. ✔ High levels of acrylamide caused cancer in laboratory animals
2. ✘ Low levels of acrylamide caused cancer in humans in laboratory conditions
3. ✘ Low levels of acrylamide were shown to protect against cancer in both humans and animals
4. ✘ High levels of acrylamide were shown to protect against cancer in both humans and animals

**Question Number : 34 Question Id : 98606863443 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

A diverse mixture of sound waves extending over a wide frequency range or a constant background noise especially one that drowns out other sounds is called:

**Options :**

1. ✘ Pink noise
2. ✘ Brown noise
3. ✔ White noise
4. ✘ Physiological noise

**Question Number : 35 Question Id : 98606863444 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

It is well-known that plants can survive for short periods without light. This process of adaptation is termed:

**Options :**

1. ✘ Chlorophyll formation
2. ✘ Photosynthesis
3. ✔ Etiolation
4. ✘ Chlorosis

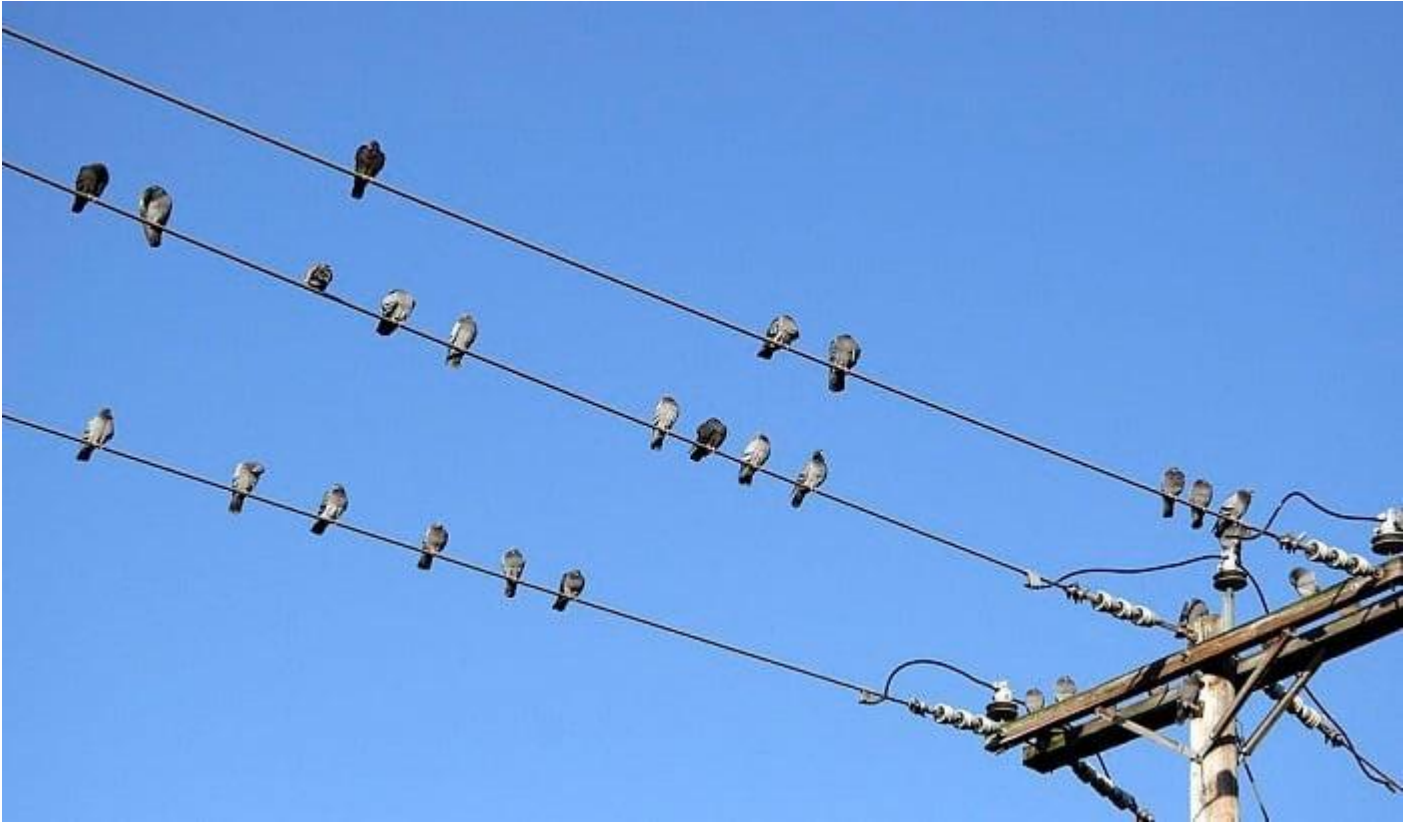
**Question Number : 36 Question Id : 98606863445 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Pigeons sitting on electric wires is a common site as shown below:



What is the reason that they do not get electrocuted even though these are high voltage wires?

**Options :**

1. ✘ Their feet are strong insulators of electricity
2. ✔ For electricity to flow voltage difference is needed
3. ✘ Pigeons are naturally resistant to electric current
4. ✘ The wires automatically stop conducting once a bird sits on them

**Question Number : 37 Question Id : 98606863446 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

A student asks his science teacher whether he can catch fire if he runs very fast. The teacher replies that scientists have shown that one needs to run at speeds of about 6000 km/hour for this. What is the major reason for generation of heat if one runs at high speeds?

**Options :**

1. ✘ Friction of the body with the air
2. ✔ Compression of air molecules in front of the runner
3. ✘ Friction of the clothes with the air
4. ✘ Generation of heat by the runner's body



**Question Number : 38 Question Id : 98606863447 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

A caricature is shown below with three-headed dog and a symbol. This shows dangers of which of the following?



**Options :**

1. ✓ Radiation
2. ✗ Drugs of abuse
3. ✗ Global warming
4. ✗ War

**Question Number : 39 Question Id : 98606863448 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

We know that we are made of particles. But when the universe began, no particles had mass; they all sped around at the speed of light. It is believed that stars, planets and life could only emerge because particles gained their mass from a fundamental mass-giving field. The existence of this field was confirmed with the discovery of:

**Options :**

1. ✗ Neutrino
2. ✗ Graviton
3. ✓ Higgs boson particle
4. ✗ Magnetic photon

**Question Number : 40 Question Id : 98606863449 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

There is a legend that the when the inventor of chess showed it to the ruler, the latter was so pleased that he asked the inventor to ask for any prize. The inventor is supposed to have asked that he may be given one grain for the first square, two for the second, four for the third, and so on; doubling the number of grains for each subsequent square. According to the legend, the ruler laughed at it saying it is such a small prize. But when the treasurers started to calculate, they found that this would require such huge number of wheat grains which they do not have. This legend illustrates:

**Options :**

1. ✘ The vast number of possibilities in chess
2. ✘ Ignorance of the inventor
3. ✘ The inability of humans to learn the game
4. ✔ How quickly exponential sequences grow

**Question Number : 41 Question Id : 98606863450 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

If a child "x" is said to be having weight above 70th percentile. What does it mean?

**Options :**

1. ✔ 30% of the children are above the weight of "x"
2. ✘ 70% of the children are above the weight of "x"
3. ✘ 30% of the children are below the weight of "x"
4. ✘ 70% of the children have the same weight as "x"

**Question Number : 42 Question Id : 98606863451 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

The mean of 20 observations is 6.21. Later on, it was discovered that the two items +5 and +3 were taken as -5 and -3. Find the correct mean.

**Options :**

1. ✔ 7.01
2. ✘ 7.1
3. ✘ 6.01
4. ✘ 6.1

**Question Number : 43 Question Id : 98606863452 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

The statistical term to represent the most frequently selling commodity of a shop?

**Options :**

1. ✓ Mode
2. ✗ 95th Percentile
3. ✗ 1st quartile
4. ✗ Probability

**Question Number : 44 Question Id : 98606863453 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which one of the following is unaffected by outliers?

**Options :**

1. ✗ Mean
2. ✓ Interquartile range
3. ✗ Standard deviation
4. ✗ Range

**Question Number : 45 Question Id : 98606863454 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

One study intended to compare 12-hour nursing shifts to 8-hour shifts to assess the effects on patient outcomes in the different wards of a hospital. The most suitable design would be:

**Options :**

1. ✗ Retrospective case-control (trohoc) study
2. ✓ Cluster randomized trial
3. ✗ Cohort study
4. ✗ Cross-sectional study

**Question Number : 46 Question Id : 98606863455 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Modification of behaviour by study participants in response to their knowledge that they are being observed is known as:

**Options :**

1. ✗ Placebo effect
2. ✗ Neyman's bias
3. ✗ Berkson's bias

4. ✓ Hawthorne effect

**Question Number : 47 Question Id : 98606863456 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

In a study, 5000 patients are randomly divided into two groups, one is administered 100 mg of a drug, the other gets placebo. The study endpoint is comparison of the incidence of stroke among the two groups at the end of 5 years. The statistical test most appropriate would be:

**Options :**

1. ✓ Chi-square test
2. ✗ Mann-Whitney U test
3. ✗ Unpaired t-test
4. ✗ Wilcoxon signed-rank test

**Question Number : 48 Question Id : 98606863457 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of following guidelines should be followed while reporting the results from a randomized clinical trial?

**Options :**

1. ✓ CONSORT
2. ✗ PRISMA
3. ✗ STARD
4. ✗ STROBE

**Question Number : 49 Question Id : 98606863458 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following example represents nominal data in statistics?

**Options :**

1. ✓ Colours of a rainbow
2. ✗ Blood pressure recordings
3. ✗ Age
4. ✗ Degree of pain graded as mild, moderate, and severe

**Question Number : 50 Question Id : 98606863459 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

The players of a football team (excluding substitutes) were advised to stand as per the ascending order of their height. The median height of the football team would be?

Options :

1. ✓ That of the 6th person
2. ✗ The sum of the height of the fifth and sixth player
3. ✗ Average of the height of the fifth and sixth player
4. ✗ Average of the height of the fifth, sixth and the seventh player

## Life Sciences

Section Id :	9860681272
Section Number :	2
Section type :	Online
Number of Questions :	100
Number of Questions to be attempted :	75
Section Marks :	75
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	9860681407
Question Shuffling Allowed :	Yes
Is Section Default? :	null

Question Number : 51 Question Id : 98606863460 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.25

Question Label : MCQ

All of the following are examples of gram-negative bacilli, EXCEPT:

Options :

1. ✓ *Enterococcus faecalis*
2. ✗ *Escherichia coli*
3. ✗ *Klebsiella pneumoniae*
4. ✗ *Proteus mirabilis*

Question Number : 52 Question Id : 98606863461 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.25

Question Label : MCQ

Which of the following is not an acid-fast parasite?

Options :

1. ✘ *Cyclospora cayetanensis*
2. ✘ *Isospora belli*
3. ✔ *Entamoeba histolytica*
4. ✘ *Cryptosporidium parvum*

**Question Number : 53 Question Id : 98606863462 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

All of the following are RNA viruses, EXCEPT:

**Options :**

1. ✔ Hepatitis B virus
2. ✘ Hepatitis A virus
3. ✘ Hepatitis C virus
4. ✘ Hepatitis E virus

**Question Number : 54 Question Id : 98606863463 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Cetrimide agar is used as selective medium for:

**Options :**

1. ✘ *Klebsiella*
2. ✔ *Pseudomonas*
3. ✘ *Shigella*
4. ✘ *Salmonella*

**Question Number : 55 Question Id : 98606863464 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

*Enterobius vermicularis* is commonly known as:

**Options :**

1. ✔ Pinworm
2. ✘ Roundworm
3. ✘ Whipworm
4. ✘ Hookworm

**Question Number : 56 Question Id : 98606863465 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**



**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

An organism whose genome has been altered by the introduction of one or more foreign DNA sequences from another species by artificial means is known as:

**Options :**

1. ✓ Transgenic
2. ✗ Humanized
3. ✗ Monoclonal
4. ✗ Inbred

**Question Number : 57 Question Id : 98606863466 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Excretion of drugs in the urine involves three distinct processes: glomerular filtration, active tubular secretion, and:

**Options :**

1. ✗ Passive tubular secretion
2. ✗ Active tubular reabsorption
3. ✗ Enterohepatic circulation
4. ✓ Passive tubular reabsorption

**Question Number : 58 Question Id : 98606863467 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Pharmacological agents targeting dopamine receptors are used in the treatment of which of the following?

**Options :**

1. ✗ Alzheimer's disease
2. ✗ Haemorrhagic stroke
3. ✗ Meningo-encephalitis
4. ✓ Schizophrenia

**Question Number : 59 Question Id : 98606863468 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

If a hypertensive patient complains of pedal oedema, he could likely be on:

**Options :**

1. ✗ Enalapril
2. ✓ Amlodipine

3. ✘ Metoprolol
4. ✘ Hydrochlorothiazide

**Question Number : 60 Question Id : 98606863469 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following is an antimalarial drug?

**Options :**

1. ✘ Adenosine
2. ✘ Amiodarone
3. ✔ Artemisinin
4. ✘ Amitriptyline

**Question Number : 61 Question Id : 98606863470 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

For converting mg/ml into molar units for a drug, you need to know:

**Options :**

1. ✘ Valency
2. ✘ Solubility
3. ✘ Molecular size
4. ✔ Gram molecular weight

**Question Number : 62 Question Id : 98606863471 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which lobe of the brain is responsible for receiving and interpreting visual information?

**Options :**

1. ✘ Frontal lobe
2. ✘ Parietal lobe
3. ✘ Temporal lobe
4. ✔ Occipital lobe

**Question Number : 63 Question Id : 98606863472 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Glycated haemoglobin (HbA1C) reflects average plasma glucose over the previous:

**Options :**

1. ✘ 4-6 weeks
2. ✔ 8-12 weeks
3. ✘ 20-24 weeks
4. ✘ 2-4 weeks

**Question Number : 64 Question Id : 98606863473 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

The hormone erythropoietin stimulates red blood cell production in the red bone marrow. Where in the body is erythropoietin produced?

**Options :**

1. ✘ Spleen
2. ✔ Kidney
3. ✘ Liver
4. ✘ Thyroid

**Question Number : 65 Question Id : 98606863474 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following blood vessels offer the greatest resistance to blood flow through the arterial system?

**Options :**

1. ✘ Arteries
2. ✔ Arterioles
3. ✘ Capillaries
4. ✘ Veins

**Question Number : 66 Question Id : 98606863475 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

If the genetic code consisted of four bases per codon instead of three bases per codon, then what will be the possible number of codons that code for 20 types of amino acids (Given the stop codons are same)?

**Options :**

1. ✘ 64
2. ✔ 253
3. ✘ 61
4. ✘ 256

**Question Number : 67 Question Id : 98606863476 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Acid guanidinium thiocyanate-phenol-chloroform extraction (AGPC) is an extraction method is used for isolation of:

**Options :**

1. ✘ RNA only
2. ✔ RNA, DNA as well as proteins
3. ✘ Proteins only
4. ✘ DNA only

**Question Number : 68 Question Id : 98606863477 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

RPMI 1640 growth medium used for cell culture contains all of the following, EXCEPT:

**Options :**

1. ✔ Growth Factors
2. ✘ Salts
3. ✘ Glucose
4. ✘ Vitamins

**Question Number : 69 Question Id : 98606863478 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following is the most probable explanation for higher lability of RNA than DNA?

**Options :**

1. ✘ Presence of metal ions like  $Mg^{2+}$  in its secondary and tertiary structure
2. ✘ Single stranded nature of RNA in contrast to double strand in DNA
3. ✔ Hydroxyl groups in the ribose backbone lowering activation energy of hydrolysis
4. ✘ Collections of short helices packed together into its structure

**Question Number : 70 Question Id : 98606863479 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following is NOT a feature of flow cytometry?

**Options :**

1. ✘ Sample should be in monodisperse suspension
2. ✔ The Core stream consists of sheath fluid only
3. ✘ Pressure of the stream presents cells in a single file to the laser beam
4. ✘ Cells scatter the light and are excited by beam and emit fluorescent light

**Question Number : 71 Question Id : 98606863480 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Statement I: Aspirin and paracetamol belong to the class of non-narcotic analgesics.

Statement II: Aspirin inhibits the synthesis of chemicals known as prostaglandins which stimulate inflammation in the tissue and cause pain.

**Options :**

1. ✔ Statement I and Statement II both are correct
2. ✘ Statement I and Statement II both are incorrect
3. ✘ Statement I is correct but Statement II is incorrect
4. ✘ Statement I is incorrect but Statement II is correct

**Question Number : 72 Question Id : 98606863481 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

HbS (Sickle Cell Anaemia) is a result of:

**Options :**

1. ✔ Transversion mutation
2. ✘ Transition mutation
3. ✘ Non-sensitive mutation
4. ✘ Frameshift mutation

**Question Number : 73 Question Id : 98606863482 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

RNA interference (RNAi) or Post-Transcriptional Gene Silencing (PTGS) is a conserved biological response to:

**Options :**

1. ✔ double-stranded RNA
2. ✘ DNA- RNA hybrid
3. ✘ Methylated double stranded DNA
4. ✘ Single stranded DNA

**Question Number : 74 Question Id : 98606863483 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Databases such as CATH and SCOP are used to identify:

**Options :**

1. ✓ the structural family to which a protein belongs
2. ✗ the genetic family to which a protein belongs
3. ✗ homologous proteins
4. ✗ analogous proteins

**Question Number : 75 Question Id : 98606863484 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

What is the function of Chaperonins?

**Options :**

1. ✗ Conformation prediction
2. ✓ Protein folding
3. ✗ Complex & slow conformation stability
4. ✗ Stability analysis

**Question Number : 76 Question Id : 98606863485 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

A population of insects exists in which black coloration is dominant to white. If there are 64 black insects and 36 white insects in the population, what is the recessive allele frequency?

**Options :**

1. ✗ 0.16
2. ✗ 0.4
3. ✓ 0.6
4. ✗ 0.36

**Question Number : 77 Question Id : 98606863486 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following choices are likely to change the allele frequencies of the indicated populations?

I. A geographic barrier isolating a small subset of a larger population



- II. The introduction of a predator that only preys upon the homozygous dominant members of the population
- III. A population that displays completely random mating

**Options :**

- 1. ✘ III only
- 2. ✘ I, II and III
- 3. ✘ II only
- 4. ✔ I and II

**Question Number : 78 Question Id : 98606863487 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following are examples of codominance?

- I. A person with blood type AB
- II. A flower that displays a red and white spotted phenotype (both colours are attributed to the same gene; homozygosity for either colour makes a flower that is completely red or white)
- III. A flower that displays a pink phenotype (a homozygous dominant flower is red and a homozygous recessive flower is white)
- IV. An organism whose heterozygous phenotype is identical to the homozygous dominant phenotype

**Options :**

- 1. ✘ III and IV
- 2. ✘ IV only
- 3. ✔ I and II
- 4. ✘ I, II and III

**Question Number : 79 Question Id : 98606863488 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Crossing foxes that are double heterozygotes for two genes regulating coat colour yields 27 grey, 12 red and 9 black offspring. What mechanism explains the ratio of coat colour observed in the offspring?

**Options :**

- 1. ✘ Mendelian inheritance
- 2. ✔ Epistasis
- 3. ✘ Pleiotropy
- 4. ✘ Chromosomal linkage

**Question Number : 80 Question Id : 98606863489 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

What is Orthology in the context of genome comparisons?

**Options :**

1. ✘ A homologous DNA sequence that was derived from a gene duplication event
2. ✔ A homologous DNA sequence that was derived from the same ancestral sequence
3. ✘ A gene that has the same DNA sequence as that in another species
4. ✘ A gene that has the same function as another gene sequence

**Question Number : 81 Question Id : 98606863490 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Mutation in CFTR gene in cystic fibrosis results in the loss of \_\_\_\_\_ amino acid at the 508th position on protein.

**Options :**

1. ✘ Histidine
2. ✘ Tryptophan
3. ✘ Tyrosine
4. ✔ Phenylalanine

**Question Number : 82 Question Id : 98606863491 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Balbiani rings occur in:

**Options :**

1. ✘ Lampbrush chromosomes
2. ✘ Polysomes
3. ✔ Polytene chromosomes
4. ✘ Sex chromosomes

**Question Number : 83 Question Id : 98606863492 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

A human male can ejaculate as many as 500 million spermatozoa at one time. So, how many spermatocytes would be involved in producing this number of spermatozoa?

**Options :**

1. ✘ 500 million
2. ✔ 125 million
3. ✘ 150 million
4. ✘ 200 million

**Question Number : 84 Question Id : 98606863493 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

A recessive mutation was discovered in a small island population (1,000 individuals). The mutation was observed in the heterozygous state but never in the homozygous state. What is the possible explanation for this observation?

**Options :**

1. ✘ Only individuals with opposite alleles at this locus are reproduced
2. ✘ Heterozygous state is fixed in this population
3. ✔ Recessive allele is lethal in homozygous state
4. ✘ Population size is too small to give an explanation to this phenomenon

**Question Number : 85 Question Id : 98606863494 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

In humans, Down Syndrome is mainly caused due to three copies of chromosome 21. Assuming complete randomness of chromosome segregation, what would be the expected progeny from the mating between a normal male and a Down Syndrome female as the ratio of Down Syndrome and normal children?

**Options :**

1. ✔ Ratio 1 : 1
2. ✘ Ratio 1 : 2
3. ✘ Ratio 2 : 1
4. ✘ Ratio 3 : 1

**Question Number : 86 Question Id : 98606863495 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

In the arterial blood gas analysis, an increase in PaCO<sub>2</sub> will indicate the presence of:

**Options :**

1. ✔ Respiratory acidosis
2. ✘ Respiratory alkalosis
3. ✘ Metabolic acidosis
4. ✘ Metabolic alkalosis

**Question Number : 87 Question Id : 98606863496 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following structure is responsible for the formation of cerebrospinal fluid?

**Options :**

1. ✓ Choroid plexus
2. ✗ Arachnoid plexus
3. ✗ Arachnoid villus
4. ✗ Arachnoid mater

**Question Number : 88 Question Id : 98606863497 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Extrinsic pathway in blood coagulation is triggered by the release of:

**Options :**

1. ✓ Tissue factor
2. ✗ Factor VII
3. ✗ Tissue plasminogen inhibitor
4. ✗ Factor X

**Question Number : 89 Question Id : 98606863498 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

In an organism, if the normal diploid number of chromosomes is 8, how many chromatids are present in each daughter cell at the end of meiosis I?

**Options :**

1. ✗ 2
2. ✗ 4
3. ✓ 8
4. ✗ 16

**Question Number : 90 Question Id : 98606863499 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following chromosomes is NOT commonly involved in Robertsonian translocation?

**Options :**

1. ✓ 7
2. ✗ 13
3. ✗ 21
4. ✗ 22

**Question Number : 91 Question Id : 98606863500 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which cell component is stained by supravital staining in the reticulocytes?

**Options :**

1. ✘ DNA
2. ✘ Cell membrane
3. ✘ Mitochondria
4. ✔ Ribonucleoproteins

**Question Number : 92 Question Id : 98606863501 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which part of the compound microscope that helps in gathering and focusing light rays on the specimen to be viewed?

**Options :**

1. ✘ Objective lens
2. ✘ Magnifying lens
3. ✔ Condenser lens
4. ✘ Eyepiece lens

**Question Number : 93 Question Id : 98606863502 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

TAE buffer commonly used for DNA gel electrophoresis contains which of the following?

**Options :**

1. ✔ Tris, EDTA, Acetic Acid
2. ✘ Tris, EDTA, Alcohol
3. ✘ Tris, Ethanol, Acetic Acid
4. ✘ Tris, Alcohol, Ethanol

**Question Number : 94 Question Id : 98606863503 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

A piece of DNA was analyzed and 15% of its nucleotides were adenine. What percentage would be uracil?

**Options :**

1. ✓ 0 percent
2. ✗ 15 percent
3. ✗ 30 percent
4. ✗ 35 percent

**Question Number : 95 Question Id : 98606863504 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following techniques would be the best to quantify the amount of protein in a sample?

**Options :**

1. ✗ Southern Blot
2. ✗ Quantitative PCR
3. ✗ Coimmunoprecipitation
4. ✓ Bradford Assay

**Question Number : 96 Question Id : 98606863505 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following is a protein modification that can initiate the degradation of the modified protein?

**Options :**

1. ✓ Ubiquitination
2. ✗ Palmitoylation
3. ✗ Myristylation
4. ✗ Glycosylation

**Question Number : 97 Question Id : 98606863506 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

If a double strand break (DSB) is not repaired during G1 phase of the cell cycle, what type of replication error would result during S phase at the site of the DSB?

**Options :**

1. ✗ Gap in the newly replicated DNA strand
2. ✓ Collapsed replication fork
3. ✗ Catenane formations
4. ✗ Reversed replication fork

**Question Number : 98 Question Id : 98606863507 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

What approximate percentage of total RNA content in a cell is messenger RNA (mRNA)?

**Options :**

1. ✘ 25-30 percent
2. ✔ 2-5 percent
3. ✘ 80-85 percent
4. ✘ 45-50 percent

**Question Number : 99 Question Id : 98606863508 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

A scientist has been working with a new species of plant. He has found that there are two separate genes, which segregate according to standard Mendelian genetics, that are capable of producing the same phenotype. A single dominant allele from either gene confers red coloration of the plant's flowers. Without any dominant alleles the flowers are white. If he crosses two plants heterozygous for both traits, what will be the resulting phenotypic ratios of the offspring?

**Options :**

1. ✔ 15 red:1 white
2. ✘ 9 red:6 pink:1 white
3. ✘ 3 red:1 white
4. ✘ 16 red:0 white

**Question Number : 100 Question Id : 98606863509 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

In spectral karyotyping (SKY), how many sets of FISH probes are utilized?

**Options :**

1. ✘ 28
2. ✘ 26
3. ✘ 22
4. ✔ 24

**Question Number : 101 Question Id : 98606863510 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

How many genes are present in human mitochondrial genome?

**Options :**



1. ✘ 24
2. ✔ 37
3. ✘ 32
4. ✘ 64

**Question Number : 102 Question Id : 98606863511 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Estimation of gamma-glutamyl transferase is useful to detect which one of the following clinical conditions?

**Options :**

1. ✘ Infective hepatitis
2. ✔ Alcohol abuse
3. ✘ Kidney failure
4. ✘ Myocardial infection

**Question Number : 103 Question Id : 98606863512 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following amino acids is present at every third position in collagen molecule?

**Options :**

1. ✘ Hydroxyproline
2. ✘ Lysine
3. ✘ Proline
4. ✔ Glycine

**Question Number : 104 Question Id : 98606863513 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which component of proteins absorb UV light at 280 nm?

**Options :**

1. ✘ Peptide bonds
2. ✘ SH group of cysteine
3. ✘ Imidazole group of tryptophan
4. ✔ Indole group of tryptophan

**Question Number : 105 Question Id : 98606863514 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following enzyme participates in both the citric acid cycle and the electron transport chain?

**Options :**

1. ✘ NADH dehydrogenase
2. ✘ Malate dehydrogenase
3. ✔ Succinate dehydrogenase
4. ✘ Isocitrate dehydrogenase

**Question Number : 106 Question Id : 98606863515 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Each turn of an  $\alpha$ -helix in secondary structure of protein contains:

**Options :**

1. ✔ 3.6 amino acids
2. ✘ 3.4 amino acids
3. ✘ 3.2 amino acids
4. ✘ 3.0 amino acids

**Question Number : 107 Question Id : 98606863516 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Nucleotide bases and aromatic amino acids absorb light respectively at:

**Options :**

1. ✔ 260 and 280 nm
2. ✘ 280 and 260 nm
3. ✘ both at 280 nm
4. ✘ 260 and 270 nm

**Question Number : 108 Question Id : 98606863517 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

A 62-year-old man is admitted with emphysema and acute upper respiratory infection. Oxygen is ordered at 2 L/min. The reason for low-flow oxygen is to:

**Options :**

1. ✘ Facilitate oxygen diffusion of the blood.
2. ✘ Prevent excessive drying of secretions
3. ✔ Prevent depression of the respiratory drive

4. ✘ **Compensate for increased airway resistance**

**Question Number : 109 Question Id : 98606863518 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

The physician has ordered mannitol IV for a patient with head injury. What should be closely monitored because the patient is receiving mannitol?

**Options :**

1. ✔ **Urine output**
2. ✘ **Deep tendon reflexes**
3. ✘ **Pulse rate**
4. ✘ **Level of orientation**

**Question Number : 110 Question Id : 98606863519 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

The serum potassium level of a patient is 2.5 mEq/L (2.5 mmol/L). Which of the following will NOT be seen on the electrocardiogram (ECG)?

**Options :**

1. ✘ **U waves**
2. ✔ **Tall T waves**
3. ✘ **Depressed ST segment**
4. ✘ **Widened QRS complex**

**Question Number : 111 Question Id : 98606863520 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following is a potassium sparing diuretic?

**Options :**

1. ✘ **Mannitol**
2. ✔ **Spironolactone**
3. ✘ **Furosemide**
4. ✘ **Acetazolamide**

**Question Number : 112 Question Id : 98606863521 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which part of the body best represents the core body temperature?

**Options :**

1. ✘ Oral cavity
2. ✘ Axilla
3. ✘ Nasal cavity
4. ✔ Rectum

**Question Number : 113 Question Id : 98606863522 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Assume that there are 6 types of nitrogen bases available and 40 types of amino acids are available for protein synthesis, then in genetic code each codon made up by minimum how many nitrogen bases?

**Options :**

1. ✔ 3
2. ✘ 4
3. ✘ 5
4. ✘ 2

**Question Number : 114 Question Id : 98606863523 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

The cylindrical channels in gap junctions are made of:

**Options :**

1. ✔ Connexin
2. ✘ Collagen
3. ✘ Fibronectin
4. ✘ N-CAM

**Question Number : 115 Question Id : 98606863524 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following is NOT used as a vector in Molecular cloning?

**Options :**

1. ✘ Plasmid
2. ✘ Cosmid
3. ✘ Artificial Chromosome
4. ✔ Hapten

**Question Number : 116 Question Id : 98606863525 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

The major donor of carbon atoms of the one-carbon pool is:

**Options :**

1. ✓ Serine
2. ✗ Tyrosine
3. ✗ Threonine
4. ✗ Proline

**Question Number : 117 Question Id : 98606863526 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

The computational methodology that tries to find the best matching between two molecules, a receptor and ligand is called:

**Options :**

1. ✗ Molecular matching
2. ✓ Molecular docking
3. ✗ Molecular fitting
4. ✗ Molecule affinity checking

**Question Number : 118 Question Id : 98606863527 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

A sample of DNA is found to have the base composition (mole ratio) of A = 40, T = 22, G = 21 and C = 17. This suggests:

**Options :**

1. ✗ DNA is circular duplex
2. ✗ DNA is linear duplex
3. ✓ DNA is single-stranded
4. ✗ DNA has high melting point

**Question Number : 119 Question Id : 98606863528 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

In eukaryotic cell transcription, RNA splicing and RNA capping take place inside?

**Options :**

1. ✘ Ribosomes
2. ✔ Nucleus
3. ✘ Endoplasmic reticulum
4. ✘ Dictyosomes

**Question Number : 120 Question Id : 98606863529 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

A few chromosomes having a small fragment called the satellite, have:

**Options :**

1. ✘ Non-staining secondary constriction at random location
2. ✘ Staining secondary constriction at constant location
3. ✔ Non-staining secondary constriction at constant location
4. ✘ Staining secondary constriction at random location

**Question Number : 121 Question Id : 98606863530 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Microtubule and microfilament are composed of which type of protein?

**Options :**

1. ✔ Tubulin and Actin, respectively
2. ✘ Tubulin and Flagellin, respectively
3. ✘ Actin and Tubulin, respectively
4. ✘ Tubulin and Dynein, respectively

**Question Number : 122 Question Id : 98606863531 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

When an alkali metal is dissolved in  $\text{NH}_3$ , it forms a blue coloured solution. The colour is due to:

**Options :**

1. ✘ Ammonia
2. ✔ Ammoniated electron
3. ✘ Ammoniated ion
4. ✘ Metal

**Question Number : 123 Question Id : 98606863532 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

CD40L, an early activation marker is predominantly expressed on which of the following lymphocyte subset?

**Options :**

1. ✓ Helper T lymphocyte
2. ✗ B lymphocyte
3. ✗ Natural killer (NK) cells
4. ✗ Cytotoxic T lymphocyte

**Question Number : 124 Question Id : 98606863533 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Natural killer (NK) cells recognize target cells for a cytotoxic response by which of the following mechanisms?

**Options :**

1. ✗ Absence of major histocompatibility complex (MHC) Class II molecules
2. ✓ Absence of major histocompatibility complex (MHC) Class I molecules
3. ✗ Presence of major histocompatibility complex (MHC) Class II molecules
4. ✗ Absence of CD16 molecules

**Question Number : 125 Question Id : 98606863534 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following autoantibodies is characteristically associated with limited scleroderma?

**Options :**

1. ✓ Anti-centromere antibody
2. ✗ Anti-RNA polymerase III
3. ✗ Anti-DNA topoisomerase I
4. ✗ Anti-histidyl aminoacyl-tRNA synthetase

**Question Number : 126 Question Id : 98606863535 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

T lymphocytes in a lymph node are concentrated in which of the following anatomical locations?

**Options :**

1. ✗ Medulla
2. ✓ Paracortex adjacent to lymphoid follicle



3. ✘ Germinal centre of lymphoid follicle
4. ✘ Mantle zone of lymphoid follicle

**Question Number : 127 Question Id : 98606863536 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

All of the following are housekeeping genes, EXCEPT:

**Options :**

1. ✘  $\beta$ -actin
2. ✘ GAPDH
3. ✔ p53
4. ✘  $\beta$ -globulin

**Question Number : 128 Question Id : 98606863537 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

All are the functions of macrophages, EXCEPT:

**Options :**

1. ✘ Maintenance of tissue homeostasis
2. ✘ Clearance of apoptotic neutrophils
3. ✘ Wound repair
4. ✔ Antigen presentation to naïve T cells

**Question Number : 129 Question Id : 98606863538 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following cells release histamine and other vasoactive substances in response to allergens?

**Options :**

1. ✘ Monocytes
2. ✘ Dendritic cell
3. ✘ Neutrophils
4. ✔ Mast Cells

**Question Number : 130 Question Id : 98606863539 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

When a person is lying down face up in the anatomical position, the individual is said to be:

**Options :**

1. ✘ Proximal
2. ✔ Supine
3. ✘ Prone
4. ✘ Rostral

**Question Number : 131 Question Id : 98606863540 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

The alimentary canal of frog is short, due to its:

**Options :**

1. ✘ Herbivorous nature
2. ✔ Carnivorous nature
3. ✘ Omnivorous nature
4. ✘ Sanguivorous nature

**Question Number : 132 Question Id : 98606863541 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Find out incorrect match related to the earth worm:

**Options :**

1. ✘ Spermatheca: 6<sup>th</sup> – 9<sup>th</sup> segment
2. ✔ Testes: 5<sup>th</sup> – 9<sup>th</sup> segment
3. ✘ Seminal vesicle: 11<sup>th</sup> – 12<sup>th</sup> segment
4. ✘ Ovary: 13<sup>th</sup> segment

**Question Number : 133 Question Id : 98606863542 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following amino acid is the precursor for the thyroid hormones T3 and T4?

**Options :**

1. ✘ Tryptophan
2. ✘ Lysine
3. ✔ Tyrosine
4. ✘ Histidine

**Question Number : 134 Question Id : 98606863543 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

The colour of earthworm body is brown due to:

**Options :**

1. ✘ Haemoglobin
2. ✘ Hemocyanin
3. ✘ RBC
4. ✔ Porphyrin

**Question Number : 135 Question Id : 98606863544 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following disease is NOT due to protein misfolding?

**Options :**

1. ✘ Alzheimer disease
2. ✘ Parkinson disease
3. ✘ Prion disease
4. ✔ Wernicke-Korsakoff syndrome

**Question Number : 136 Question Id : 98606863545 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which community remains stable as long as the environment remains unchanged?

**Options :**

1. ✘ Pioneer
2. ✔ Climax
3. ✘ Seral
4. ✘ Both Pioneer and Climax

**Question Number : 137 Question Id : 98606863546 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

When a dry piece of tissue is fully burnt, all the carbon compounds are oxidized to gaseous form and the remaining is called 'ash'. The ash contains all of the following, Except:

**Options :**

1. ✘ Calcium

2. ✘ Magnesium
3. ✘ Sulphur
4. ✔ Nucleic acid

**Question Number : 138 Question Id : 98606863547 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which is the first zone of purification in a sand bed?

**Options :**

1. ✘ Heterotrophic zone
2. ✔ Schmutzdecke zone
3. ✘ Electrolytic zone
4. ✘ Autotrophic zone

**Question Number : 139 Question Id : 98606863548 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following type of pollution is Cultural eutrophication?

**Options :**

1. ✘ Noise pollution
2. ✘ Thermal pollution
3. ✘ Soil pollution
4. ✔ Water pollution

**Question Number : 140 Question Id : 98606863549 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following is not the landfilling method?

**Options :**

1. ✔ Bangalore method
2. ✘ Area method
3. ✘ Depression method
4. ✘ Trench method

**Question Number : 141 Question Id : 98606863550 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following occurs only in plants and a few filamentous fungi?

Options :

1. ✓ Glyoxysomes
2. ✗ Peroxisomes
3. ✗ Periplasmic space
4. ✗ Ribosomes

**Question Number : 142 Question Id : 98606863551 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Assertion: Cleistogamous flowers produce assured seed-set even in the absence of pollinators.

Reason: Cleistogamous flower do not open at all.

Options :

1. ✓ Both Assertion and Reason are correct and Reason is the correct explanation of Assertion.
2. ✗ Both Assertion and Reason are correct and Reason is not the correct explanation of Assertion.
3. ✗ Assertion is correct but the Reason is not correct.
4. ✗ Assertion is not correct but the Reason is correct.

**Question Number : 143 Question Id : 98606863552 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Greenhouse effect is due to:

Options :

1. ✗ Accumulation of O<sub>3</sub> and depletion of CO<sub>2</sub>
2. ✗ Accumulation of both O<sub>2</sub> and CO<sub>2</sub>
3. ✓ Accumulation of CO<sub>2</sub>, CH<sub>4</sub>, CFC and N<sub>2</sub>O
4. ✗ Presence of green plants on the Earth

**Question Number : 144 Question Id : 98606863553 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

How many of the following are Mendelian disorders?

Sickle cell anaemia, Haemophilia, Cri-du chat syndrome, Thalassaemia, Down's syndrome, Colour blindness, Phenylketonuria, Turner's syndrome

Options :

1. ✗ Four
2. ✓ Five

3. ✘ Six
4. ✘ Seven

**Question Number : 145 Question Id : 98606863554 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

*Monascus purpureus* is a yeast used commercially in the production of:

**Options :**

1. ✘ Ethanol
2. ✘ Streptokinase for removing clots from the blood vessels
3. ✘ Citric acid
4. ✔ Blood cholesterol lowering statins

**Question Number : 146 Question Id : 98606863555 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

In a research study, a scientist decided to use the 98% confidence interval to interpret his results. Which of the following would be true regarding the p-value to assign statistical significance?

**Options :**

1. ✘ A p value of  $<0.05$  will be still considered significant
2. ✔ The researcher should use a p-value  $<0.02$  to assign significance
3. ✘ The researcher can choose either of the p-values
4. ✘ The researched should use a p value of  $<0.5$

**Question Number : 147 Question Id : 98606863556 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

The function of a sedimentation tank in sewage treatment is to:

**Options :**

1. ✘ Disinfect sewage
2. ✘ Remove water content
3. ✘ Aerate the sewage
4. ✔ Remove suspended solids

**Question Number : 148 Question Id : 98606863557 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Rusticles or 'rivers of rust' are structures that run down the sides of the sunken ships. They are formed by the action of:

**Options :**

1. ✓ Bacteria feeding off the iron
2. ✗ Sharks gnawing at the metal
3. ✗ Small fish eating the iron
4. ✗ Flows of water currents

**Question Number : 149 Question Id : 98606863558 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

The charity provides support for pet owners who cannot afford private veterinary treatment is:

**Options :**

1. ✗ Red cross
2. ✗ Yellow cross
3. ✓ Blue cross
4. ✗ Green cross

**Question Number : 150 Question Id : 98606863559 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

The highest seismic domain in India is in:

**Options :**

1. ✗ The Western Ghats
2. ✗ The Dharwar Craton
3. ✗ The Indo -Gangetic plains
4. ✓ The Himalayas



# Postgraduate Institute of Medical Education and Research PGIMER, Chandigarh

## Notations :

- 1.Options shown in green color and with ✓ icon are correct.
- 2.Options shown in red color and with ✗ icon are incorrect.

<b>Question Paper Name :</b>	Social Sciences 08 July 2023 Shift 1
<b>Subject Name :</b>	Social Sciences
<b>Creation Date :</b>	2023-07-08 13:17:22
<b>Duration :</b>	120
<b>Total Marks :</b>	125
<b>Display Marks:</b>	Yes
<b>Share Answer Key With Delivery Engine :</b>	Yes
<b>Actual Answer Key :</b>	Yes
<b>Calculator :</b>	None
<b>Magnifying Glass Required? :</b>	No
<b>Ruler Required? :</b>	No
<b>Eraser Required? :</b>	No
<b>Scratch Pad Required? :</b>	No
<b>Rough Sketch/Notepad Required? :</b>	No
<b>Protractor Required? :</b>	No
<b>Show Watermark on Console? :</b>	Yes
<b>Highlighter :</b>	No
<b>Auto Save on Console?</b>	No
<b>Change Font Color :</b>	No
<b>Change Background Color :</b>	No
<b>Change Theme :</b>	No
<b>Help Button :</b>	No
<b>Show Reports :</b>	No
<b>Show Progress Bar :</b>	No

## Social Sciences

<b>Group Number :</b>	1
<b>Group Id :</b>	986068873
<b>Group Maximum Duration :</b>	0
<b>Group Minimum Duration :</b>	120
<b>Show Attended Group? :</b>	No
<b>Edit Attended Group? :</b>	No

<b>Break time :</b>	0
<b>Group Marks :</b>	125
<b>Is this Group for Examiner? :</b>	No
<b>Examiner permission :</b>	Cant View
<b>Show Progress Bar? :</b>	No

## Aptitude

<b>Section Id :</b>	9860681273
<b>Section Number :</b>	1
<b>Section type :</b>	Online
<b>Number of Questions :</b>	50
<b>Number of Questions to be attempted :</b>	50
<b>Section Marks :</b>	50
<b>Enable Mark as Answered Mark for Review and Clear Response :</b>	Yes
<b>Maximum Instruction Time :</b>	0
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	9860681408
<b>Question Shuffling Allowed :</b>	Yes
<b>Is Section Default? :</b>	null

**Question Number : 1 Question Id : 98606863560 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

A beaker is filled to the brim with water at 4°C. This water will overflow if its temperature is:

**Options :**

1. ✘ Increased
2. ✘ Reduced
3. ✔ Either increased or reduced
4. ✘ None of these options is correct

**Question Number : 2 Question Id : 98606863561 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Mangoes can be ripened quickly by using:

**Options :**

1. ✔ Calcium carbide
2. ✘ Calcium carbonate
3. ✘ Calcium chloride

4. ✘ Calcium sulphide

**Question Number : 3 Question Id : 98606863562 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which colour of insulation covering is there on the earth wire that goes from the main switchboard to our rooms?

**Options :**

1. ✘ Red
2. ✘ Black
3. ✔ Green
4. ✘ Yellow

**Question Number : 4 Question Id : 98606863563 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

A relationship between two biological organisms, where one organism benefits while the other remains unaffected, is termed:

**Options :**

1. ✘ Predation
2. ✔ Commensalism
3. ✘ Mutualism
4. ✘ Parasitism

**Question Number : 5 Question Id : 98606863564 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Ethanol as a viable bio-fuel can be obtained from:

**Options :**

1. ✘ Potato
2. ✘ Rice
3. ✔ Sugarcane
4. ✘ Wheat

**Question Number : 6 Question Id : 98606863565 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Activated charcoal can be used to remove colouring matter from pure substances by:

**Options :**

1. ✓ Adsorption
2. ✗ Bleaching
3. ✗ Oxidation
4. ✗ Reduction

**Question Number : 7 Question Id : 98606863566 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following is correct regarding the explanation of blue colour of the sky?

**Options :**

1. ✓ The blue light is more scattered by the air molecules in earth atmosphere giving it a blue appearance
2. ✗ The red light is more scattered by the atmospheric air molecules and becomes invisible, leaving only the blue light reach the observer
3. ✗ Dr. CV Raman was awarded the Nobel prize for describing this phenomenon
4. ✗ The blue colour of the sky is due to the reflection of light from the oceans and seas

**Question Number : 8 Question Id : 98606863567 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following metals is an important constituent of the water purification agent zeolite?

**Options :**

1. ✓ Aluminium
2. ✗ Gold
3. ✗ Silver
4. ✗ Copper

**Question Number : 9 Question Id : 98606863568 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the muscles in our body has a name that relates it to tailoring?

**Options :**

1. ✗ Peroneus
2. ✗ Hamstrings
3. ✗ Trapezius
4. ✓ Sartorius

**Question Number : 10 Question Id : 98606863569 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

What colour is the best to wear to stay cool on a hot and sunny day?

**Options :**

1. ✘ Black
2. ✘ Blue
3. ✘ Orange
4. ✔ White

**Question Number : 11 Question Id : 98606863570 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

A herpetologist would be studying which of the following?

**Options :**

1. ✘ Butterfly
2. ✔ Snake
3. ✘ Blood
4. ✘ Liver

**Question Number : 12 Question Id : 98606863571 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following metals is commonly used to increase the strength of steel alloys?

**Options :**

1. ✘ Bismuth
2. ✘ Boron
3. ✔ Molybdenum
4. ✘ Tin

**Question Number : 13 Question Id : 98606863572 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Leather is prepared from which portion(s) of the skin?

**Options :**

1. ✘ Dermis alone

2. ✘ Both dermis and epidermis
3. ✔ Dermis and subcutaneous fatty tissue
4. ✘ Subcutaneous fatty tissue and underlying muscle

**Question Number : 14 Question Id : 98606863573 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Humans have the ability to detect and discriminate at least 10,000 different odorants because we have one of the most evolved \_\_\_\_ system.

**Options :**

1. ✘ Auditory
2. ✘ Gustatory
3. ✔ Olfactory
4. ✘ Tactile

**Question Number : 15 Question Id : 98606863574 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

The pH of gastric acid (HCl) in the human stomach lumen can be as low as 1.5. Still, normally, it does not corrode the gastric mucosa because:

**Options :**

1. ✘ This pH is non-corrosive for the cells of the stomach
2. ✔ Mucosa secretes protective mucus that lines the surface
3. ✘ Humans take acid-lowering medications all the time to keep pH high
4. ✘ Gastric secretions contain milder acids as well which neutralize the strong acid (HCl)

**Question Number : 16 Question Id : 98606863575 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

A picture (year 1720) of personal protective equipment (PPE) is shown: To which epidemic was this related?



Options :

1. ✘ Influenza
2. ✘ Smallpox
3. ✘ Epidemic typhus
4. ✔ Plague

Question Number : 17 Question Id : 98606863576 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.25

Question Label : MCQ

A key tool used for determining the age of prehistoric samples is:

Options :

1. ✘ Forensic calibration
2. ✘ Bone age determination
3. ✔ Radiocarbon dating
4. ✘ Todd's method

Question Number : 18 Question Id : 98606863577 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.25

Question Label : MCQ



The Nobel Prize in Medicine is actually named as Nobel Prize in:

**Options :**

1. ✘ **Medicine or Surgery**
2. ✔ **Physiology or Medicine**
3. ✘ **Medicine or Pathology**
4. ✘ **Chemistry or Medicine**

**Question Number : 19 Question Id : 98606863578 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following is an egg laying mammal?

**Options :**

1. ✘ **Racoon**
2. ✘ **European badger**
3. ✘ **Three-toed sloth**
4. ✔ **Duck billed platypus**

**Question Number : 20 Question Id : 98606863579 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

The full form of RT-PCR is:

**Options :**

1. ✘ **Reverse-time polymerase chain reaction**
2. ✔ **Reverse transcriptase polymerase chain reaction**
3. ✘ **Real-transcription polymerase chain reaction**
4. ✘ **Real-time polymerase chain reaction**

**Question Number : 21 Question Id : 98606863580 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which among the following radiofrequencies is most commonly used in global air navigational systems?

**Options :**

1. ✘ **Very Low Frequency (VLF)**
2. ✔ **Very High Frequency (VHF)**
3. ✘ **Tetra-Hertz Frequency (THF)**
4. ✘ **Ultra-High Frequency (UHF)**

**Question Number : 22 Question Id : 98606863581 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which part of the earth is suitable to witness the natural phenomena of dynamic light displays called 'aurora'?

**Options :**

1.  Near the arctic and Antarctic
2.  Closer to the equatorial regions
3.  Sahara Desert
4.  Mongolia

**Question Number : 23 Question Id : 98606863582 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

A mixture of oxygen with this gas reduces oxygen density and can be used in hospitals?

**Options :**

1.  Nitrous oxide
2.  Sevoflurane
3.  Nitric oxide
4.  Helium

**Question Number : 24 Question Id : 98606863583 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following provided the major clue that led to the recognition of the double helical structure of DNA?

**Options :**

1.  Xray crystallography images
2.  Electron microscopy of dividing cells
3.  Transmission electron microscopy of meiosis
4.  Polarizing microscopy

**Question Number : 25 Question Id : 98606863584 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Alfred Nobel, the founder of Nobel prizes was once called the 'merchant of death' for which of the following inventions?

**Options :**

1. ✘ Gun powder
2. ✘ Cyanide
3. ✔ Dynamite
4. ✘ Hydrogen bombs

**Question Number : 26 Question Id : 98606863585 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following is the primary reason for the tremendous energy generated from the Sun and the other stars?

**Options :**

1. ✔ Nuclear fusion
2. ✘ Nuclear fission
3. ✘ Electromagnetic effect
4. ✘ Combustion of inert gases, especially helium

**Question Number : 27 Question Id : 98606863586 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following is not a component of oral rehydration solution?

**Options :**

1. ✘ Sodium chloride
2. ✔ Sodium carbonate
3. ✘ Potassium chloride
4. ✘ Glucose

**Question Number : 28 Question Id : 98606863587 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Most abundant organic polymer on earth is:

**Options :**

1. ✘ Collagen
2. ✘ Starch
3. ✔ Cellulose
4. ✘ Alginate

**Question Number : 29 Question Id : 98606863588 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following salts is soluble in water at pH 7.0?

**Options :**

1. ✓ Copper sulphate
2. ✗ Barium Sulphate
3. ✗ Silver Chloride
4. ✗ Lead Sulphate

**Question Number : 30 Question Id : 98606863589 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following microbe helps termites digest Cellulose?

**Options :**

1. ✗ *Fibrobacter succinogenes*
2. ✗ *Ruminococcus flavefaciens*
3. ✓ *Trichonympha campanula*
4. ✗ *Pseudomonas putida*

**Question Number : 31 Question Id : 98606863590 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

The Xanthophyte (Yellow Green Algae) cell walls are typically made up of:

**Options :**

1. ✗ Chitin
2. ✓ Cellulose and pectin
3. ✗ Starch
4. ✗ Xylan and chitin

**Question Number : 32 Question Id : 98606863591 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Spectacles used for viewing 3D films have:

**Options :**

1. ✓ Polaroids

2. ✘ Concave lens
3. ✘ Convex lens
4. ✘ Bifocal lens

**Question Number : 33 Question Id : 98606863592 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Acrylamide is a substance that forms through a natural chemical reaction between sugars and asparagine in plant-based foods during high-temperature cooking, such as frying, roasting, and baking. It is important to know about this chemical because:

**Options :**

1. ✔ High levels of acrylamide caused cancer in laboratory animals
2. ✘ Low levels of acrylamide caused cancer in humans in laboratory conditions
3. ✘ Low levels of acrylamide were shown to protect against cancer in both humans and animals
4. ✘ High levels of acrylamide were shown to protect against cancer in both humans and animals

**Question Number : 34 Question Id : 98606863593 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

A diverse mixture of sound waves extending over a wide frequency range or a constant background noise especially one that drowns out other sounds is called:

**Options :**

1. ✘ Pink noise
2. ✘ Brown noise
3. ✔ White noise
4. ✘ Physiological noise

**Question Number : 35 Question Id : 98606863594 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

It is well-known that plants can survive for short periods without light. This process of adaptation is termed:

**Options :**

1. ✘ Chlorophyll formation
2. ✘ Photosynthesis
3. ✔ Etiolation
4. ✘ Chlorosis

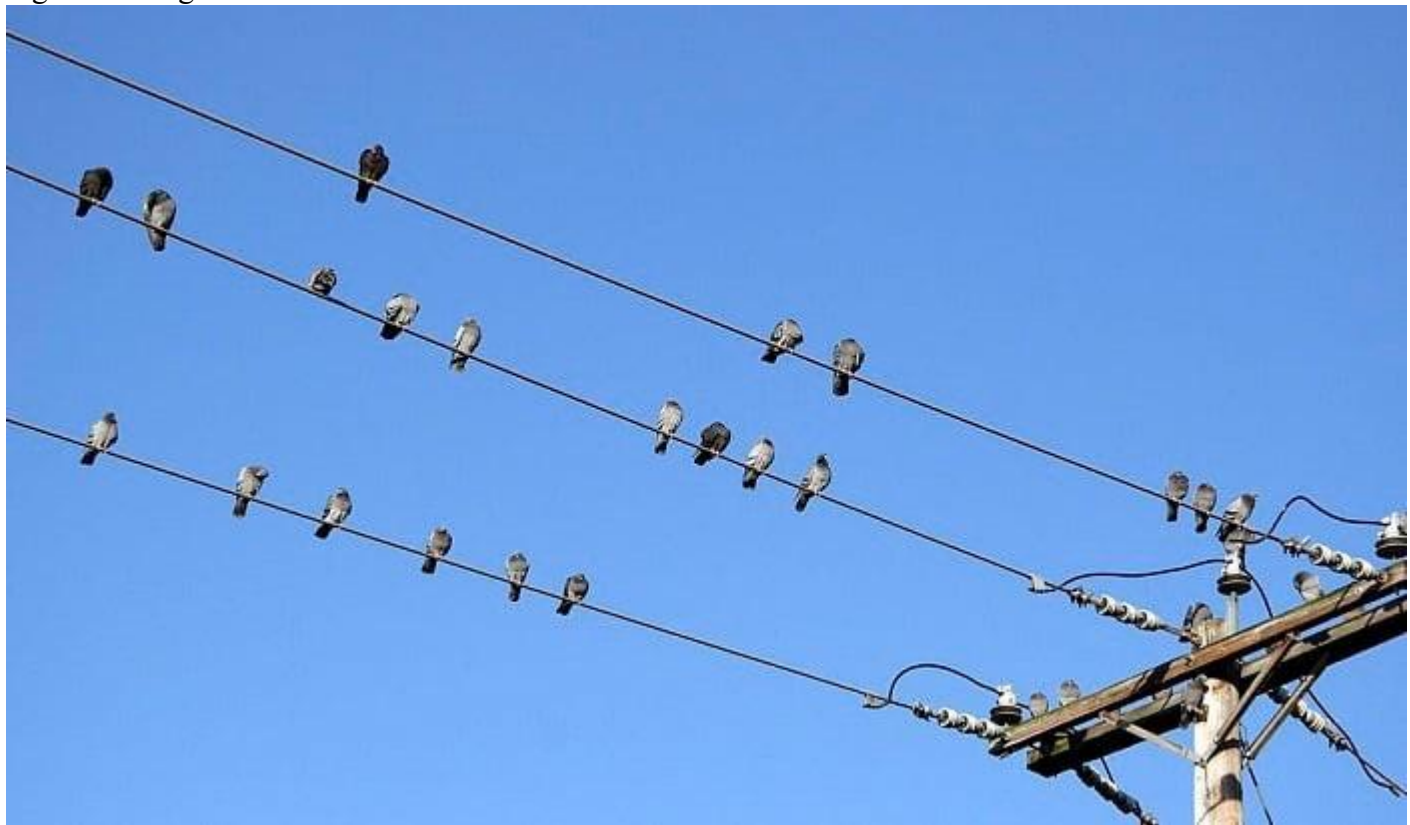
**Question Number : 36 Question Id : 98606863595 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Pigeons sitting on electric wires is a common site as shown below:



What is the reason that they do not get electrocuted even though these are high voltage wires?

**Options :**

1. ✘ Their feet are strong insulators of electricity
2. ✔ For electricity to flow voltage difference is needed
3. ✘ Pigeons are naturally resistant to electric current
4. ✘ The wires automatically stop conducting once a bird sits on them

**Question Number : 37 Question Id : 98606863596 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

A student asks his science teacher whether he can catch fire if he runs very fast. The teacher replies that scientists have shown that one needs to run at speeds of about 6000 km/hour for this. What is the major reason for generation of heat if one runs at high speeds?

**Options :**

1. ✘ Friction of the body with the air
2. ✔ Compression of air molecules in front of the runner
3. ✘ Friction of the clothes with the air
4. ✘ Generation of heat by the runner's body

**Question Number : 38 Question Id : 98606863597 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

A caricature is shown below with three-headed dog and a symbol. This shows dangers of which of the following?



**Options :**

1. ✓ Radiation
2. ✗ Drugs of abuse
3. ✗ Global warming
4. ✗ War

**Question Number : 39 Question Id : 98606863598 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

We know that we are made of particles. But when the universe began, no particles had mass; they all sped around at the speed of light. It is believed that stars, planets and life could only emerge because particles gained their mass from a fundamental mass-giving field. The existence of this field was confirmed with the discovery of:

**Options :**

1. ✗ Neutrino
2. ✗ Graviton
3. ✓ Higgs boson particle
4. ✗ Magnetic photon



**Question Number : 40 Question Id : 98606863599 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

There is a legend that the when the inventor of chess showed it to the ruler, the latter was so pleased that he asked the inventor to ask for any prize. The inventor is supposed to have asked that he may be given one grain for the first square, two for the second, four for the third, and so on; doubling the number of grains for each subsequent square. According to the legend, the ruler laughed at it saying it is such a small prize. But when the treasurers started to calculate, they found that this would require such huge number of wheat grains which they do not have. This legend illustrates:

**Options :**

1. ✘ The vast number of possibilities in chess
2. ✘ Ignorance of the inventor
3. ✘ The inability of humans to learn the game
4. ✔ How quickly exponential sequences grow

**Question Number : 41 Question Id : 98606863600 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

If a child “x” is said to be having weight above 70th percentile. What does it mean?

**Options :**

1. ✔ 30% of the children are above the weight of “x”
2. ✘ 70% of the children are above the weight of “x”
3. ✘ 30% of the children are below the weight of “x”
4. ✘ 70% of the children have the same weight as “x”

**Question Number : 42 Question Id : 98606863601 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

The mean of 20 observations is 6.21. Later on, it was discovered that the two items +5 and +3 were taken as -5 and -3. Find the correct mean.

**Options :**

1. ✔ 7.01
2. ✘ 7.1
3. ✘ 6.01
4. ✘ 6.1

**Question Number : 43 Question Id : 98606863602 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**



**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

The statistical term to represent the most frequently selling commodity of a shop?

**Options :**

1. ✓ Mode
2. ✗ 95<sup>th</sup> Percentile
3. ✗ 1<sup>st</sup> quartile
4. ✗ Probability

**Question Number : 44 Question Id : 98606863603 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which one of the following is unaffected by outliers?

**Options :**

1. ✗ Mean
2. ✓ Interquartile range
3. ✗ Standard deviation
4. ✗ Range

**Question Number : 45 Question Id : 98606863604 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

One study intended to compare 12-hour nursing shifts to 8-hour shifts to assess the effects on patient outcomes in the different wards of a hospital. The most suitable design would be:

**Options :**

1. ✗ Retrospective case-control (trohoc) study
2. ✓ Cluster randomized trial
3. ✗ Cohort study
4. ✗ Cross-sectional study

**Question Number : 46 Question Id : 98606863605 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Modification of behaviour by study participants in response to their knowledge that they are being observed is known as:

**Options :**

1. ✗ Placebo effect
2. ✗ Neyman's bias

3. ✘ Berkson's bias
4. ✔ Hawthorne effect

**Question Number : 47 Question Id : 98606863606 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

In a study, 5000 patients are randomly divided into two groups, one is administered 100 mg of a drug, the other gets placebo. The study endpoint is comparison of the incidence of stroke among the two groups at the end of 5 years. The statistical test most appropriate would be:

**Options :**

1. ✔ Chi-square test
2. ✘ Mann-Whitney U test
3. ✘ Unpaired t-test
4. ✘ Wilcoxon signed-rank test

**Question Number : 48 Question Id : 98606863607 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of following guidelines should be followed while reporting the results from a randomized clinical trial?

**Options :**

1. ✔ CONSORT
2. ✘ PRISMA
3. ✘ STARD
4. ✘ STROBE

**Question Number : 49 Question Id : 98606863608 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following example represents nominal data in statistics?

**Options :**

1. ✔ Colours of a rainbow
2. ✘ Blood pressure recordings
3. ✘ Age
4. ✘ Degree of pain graded as mild, moderate, and severe

**Question Number : 50 Question Id : 98606863609 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

The players of a football team (excluding substitutes) were advised to stand as per the ascending order of their height. The median height of the football team would be?

**Options :**

1. ✓ That of the 6th person
2. ✗ The sum of the height of the fifth and sixth player
3. ✗ Average of the height of the fifth and sixth player
4. ✗ Average of the height of the fifth, sixth and the seventh player

## Social Sciences

<b>Section Id :</b>	9860681274
<b>Section Number :</b>	2
<b>Section type :</b>	Online
<b>Number of Questions :</b>	100
<b>Number of Questions to be attempted :</b>	75
<b>Section Marks :</b>	75
<b>Enable Mark as Answered Mark for Review and Clear Response :</b>	Yes
<b>Maximum Instruction Time :</b>	0
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	9860681409
<b>Question Shuffling Allowed :</b>	Yes
<b>Is Section Default? :</b>	null

**Question Number : 51 Question Id : 98606863610 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

The ability to put yourself in someone else's shoes is:

**Options :**

1. ✗ Compassion
2. ✓ Empathy
3. ✗ Sympathy
4. ✗ Humaneness

**Question Number : 52 Question Id : 98606863611 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

The \_\_\_\_\_ is an approach that draws on multiple theoretical orientations and techniques, allowing the therapist to use the most effective methods available to address individual client's needs. It is also sometimes referred to as multi-modal or integrative therapy.

**Options :**

1.  Eclectic Therapy
2.  Systemic Therapy
3.  Supportive psychotherapy
4.  Mixed therapy

**Question Number : 53 Question Id : 98606863612 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

The name of Erving Goffman is associated with:

**Options :**

1.  Stigma
2.  Social Support
3.  Recovery
4.  Expressed emotions

**Question Number : 54 Question Id : 98606863613 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

A person who champions the rights of the individual, groups and communities, either directly or through community actions is known as a/an:

**Options :**

1.  Activist
2.  Agitator
3.  Advocate
4.  Negotiator

**Question Number : 55 Question Id : 98606863614 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

The change of behaviour in the client by observing and copying the behaviour of others or therapist is understood as:

**Options :**

1.  Personalizing
2.  Repeating
3.  Observation

4. ✓ Modelling

**Question Number : 56 Question Id : 98606863615 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

An individual's belief in their own capacity to act in the ways necessary to reach specific goals in the context of therapy is understood as promoting:

**Options :**

1. ✘ Self-efficiency
2. ✘ Self-esteem
3. ✓ Self-efficacy
4. ✘ Self-confidence

**Question Number : 57 Question Id : 98606863616 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

The capacity to see problems and situations in perspective is understood as:

**Options :**

1. ✘ Transference
2. ✘ Perception
3. ✘ Resistance
4. ✓ Insight

**Question Number : 58 Question Id : 98606863617 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Palliative care is usually done for:

**Options :**

1. ✘ Healthy new born babies
2. ✘ Healthy adults
3. ✘ People with acute illnesses
4. ✓ People with terminal illnesses

**Question Number : 59 Question Id : 98606863618 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Reduction in one's ability to perform everyday tasks is understood as:

**Options :**

1. ✘ Impairment
2. ✔ Disability
3. ✘ Dysfunction
4. ✘ Functioning

**Question Number : 60 Question Id : 98606863619 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

According to Kuppuswamy socio-economic status, which of the following is not included in defining socio-economic status?

**Options :**

1. ✘ Education of head of the family
2. ✘ Income of family
3. ✔ Land holding of the family
4. ✘ Occupation of head of family

**Question Number : 61 Question Id : 98606863620 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following defense mechanism is not associated with obsessive compulsive disorder?

**Options :**

1. ✘ Seclusion
2. ✘ Reaction-making
3. ✘ Regression
4. ✔ Acting out

**Question Number : 62 Question Id : 98606863621 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

A type of qualitative research that involves researchers themselves immersing in a particular community or organization to observe their behaviour and interactions closely is known as:

**Options :**

1. ✔ Ethnography
2. ✘ Ethnocentrism
3. ✘ Cultural Relativism
4. ✘ Constructivism

**Question Number : 63 Question Id : 98606863622 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

A suicide bomber as per the Durkheim theory is a representative of which of the following type of suicide?

**Options :**

1. ✘ Egoistic Suicide
2. ✘ Anomic Suicide
3. ✔ Altruistic Suicide
4. ✘ Fatalistic Suicide

**Question Number : 64 Question Id : 98606863623 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Deliberate imposition of one's own cultural values on another culture is known as:

**Options :**

1. ✘ Cultural Relativism
2. ✔ Cultural imperialism
3. ✘ Cultural Shock
4. ✘ Ideal culture

**Question Number : 65 Question Id : 98606863624 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

The book: "Power of Elite" is written by:

**Options :**

1. ✘ Karl Marx
2. ✔ C. Wright Mills
3. ✘ Travis Hirschi
4. ✘ Robert Merton

**Question Number : 66 Question Id : 98606863625 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Labeling theory is related to:

**Options :**

1. ✘ Social support
2. ✘ Leadership
3. ✘ Bullying
4. ✔ Stigma

**Question Number : 67 Question Id : 98606863626 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

A person who has been forced to leave his or her country in order to escape war, persecution, or natural disaster is:

**Options :**

1. ✘ Genocide
2. ✔ Refugee
3. ✘ Displaced population
4. ✘ Exurbs

**Question Number : 68 Question Id : 98606863627 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

The belief that another culture is superior to one's own culture is termed as:

**Options :**

1. ✘ Cultural discrimination
2. ✘ Ethnocentrism
3. ✔ Xenocentrism
4. ✘ Cultural Hierarchy

**Question Number : 69 Question Id : 98606863628 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Flexible and fluid conceptualization of sexuality is understood as:

**Options :**

1. ✘ Symbolic interactionism
2. ✘ Sexuality
3. ✘ Misogyny
4. ✔ Queer

**Question Number : 70 Question Id : 98606863629 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**



**Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

The beliefs, thoughts, feelings, and attitudes someone holds about a group is known as:

**Options :**

1. ✘ Discrimination
2. ✔ Prejudice
3. ✘ Racism
4. ✘ Assimilation

**Question Number : 71 Question Id : 98606863630 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Unions of people within the same social category is known as:

**Options :**

1. ✔ Endogamous marriages
2. ✘ Exogamous marriages
3. ✘ Enterogamous marriage
4. ✘ Heterogamous marriage

**Question Number : 72 Question Id : 98606863631 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

The term “Collective consciousness” was given by:

**Options :**

1. ✘ Karl Marx
2. ✘ Eugen Bleuler
3. ✔ E. Durkheim
4. ✘ Carl Jung

**Question Number : 73 Question Id : 98606863632 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Preoperational stage of cognitive development as per the Piaget corresponds to which of the following ages?

**Options :**

1. ✘ 0-2 years
2. ✔ 2-7 years
3. ✘ 7-11 years

4. ✘ 11-14 years

**Question Number : 74 Question Id : 98606863633 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following is the final stage of grief?

**Options :**

1. ✘ Denial
2. ✘ Aggression
3. ✔ Acceptance
4. ✘ Bargain

**Question Number : 75 Question Id : 98606863634 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Attachment theory was given by:

**Options :**

1. ✘ Eric Erickson
2. ✔ John Bowlby
3. ✘ Sigmund Freud
4. ✘ Melanie Kleine

**Question Number : 76 Question Id : 98606863635 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Projective identification is part of:

**Options :**

1. ✔ Object Relation theory
2. ✘ Psychodynamic theory
3. ✘ Attachment theory
4. ✘ Biological theory

**Question Number : 77 Question Id : 98606863636 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following is not a Mature Ego defense mechanism?

**Options :**

1. ✘ Humour
2. ✘ Suppression
3. ✘ Sublimation
4. ✔ Repression

**Question Number : 78 Question Id : 98606863637 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Electra-complex is related to:

**Options :**

1. ✔ Female child
2. ✘ Male Child
3. ✘ Either of them
4. ✘ None of them

**Question Number : 79 Question Id : 98606863638 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

In the management of obsessive-compulsive disorder, reduction in anxiety after repeated exposure to the stimulus over time is termed as:

**Options :**

1. ✘ Learning
2. ✘ Flooding
3. ✘ Response Prevention
4. ✔ Habituation

**Question Number : 80 Question Id : 98606863639 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Social learning theory was given by:

**Options :**

1. ✘ Richard Lazarus
2. ✘ Hens Selye
3. ✔ Albert Bandura
4. ✘ Ivan Pavlov

**Question Number : 81 Question Id : 98606863640 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

What stands for 'S' in "SATH", an initiative by Government of India to initiate transformation in Health and education sectors by associating with states?

**Options :**

1. ✘ Supportive
2. ✘ Social
3. ✘ Supervisory
4. ✔ Sustainable

**Question Number : 82 Question Id : 98606863641 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

The Nurse health educates the group of middle-aged women to undergo which of the following test for screening of cervical cancer?

**Options :**

1. ✘ Mantoux test
2. ✘ Ultrasonography
3. ✘ Fine needle aspiration cytology
4. ✔ Pap smear

**Question Number : 83 Question Id : 98606863642 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Integrated Child Development Services (ICDS) centre is run by:

**Options :**

1. ✘ Auxiliary nurse midwife (ANM)
2. ✘ Public health nurse (PHN)
3. ✘ Dai
4. ✔ Anganwadi worker

**Question Number : 84 Question Id : 98606863643 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

In the Pradhan Mantri Jan Arogya Yojana (PMJAY scheme), the existing sub-centres and Primary Health centres shall be transformed and renamed as which one of the following?

**Options :**

1. ✘ Rejuvenated Health Centres
2. ✘ Transformed Health Centres
3. ✔ Health and Wellness Centres
4. ✘ Transformed Wellness Centres

**Question Number : 85 Question Id : 98606863644 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

According to Integrated Management of Neonates and Childhood Illness (IMNCI), a three-month-old child has fast breathing, if you count:

**Options :**

1. ✘ 20 breaths per minute or more
2. ✘ 30 breaths per minute or more
3. ✘ 40 breaths per minute or more
4. ✔ 50 breaths per minute or more

**Question Number : 86 Question Id : 98606863645 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

When the offsprings inherit the father's name, the family is called:

**Options :**

1. ✘ Patriarchal
2. ✘ Patrilineal
3. ✔ Patronymic
4. ✘ Conjugal

**Question Number : 87 Question Id : 98606863646 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following is NOT an educational test for assessment of learning disorder?

**Options :**

1. ✔ Raven progressive matrices
2. ✘ Kaufman test of educational achievement
3. ✘ Gray oral reading test
4. ✘ Phonetic Reading Chain Diagnostic Reading Assessment

**Question Number : 88 Question Id : 98606863647 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

The delay in reaction time between congruent and incongruent stimuli is called:

**Options :**

1. ✘ Google Effect
2. ✔ Stroop Effect
3. ✘ Spacing Effect
4. ✘ Testing Effect

**Question Number : 89 Question Id : 98606863648 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Who initiated the scientific study of creativity in psychology?

**Options :**

1. ✘ Mednick
2. ✔ Guilford
3. ✘ Galton
4. ✘ Torrance

**Question Number : 90 Question Id : 98606863649 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following is NOT a case history authored by Prof. Sigmund Freud?

**Options :**

1. ✘ The Dora Case history
2. ✘ The Little Hans Case history
3. ✔ The Dog man case history
4. ✘ The Rat man case history

**Question Number : 91 Question Id : 98606863650 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Who formed Widow Remarriage Association in 1861 which was aimed at promotion of widow remarriage?

**Options :**

1. ✘ Rajaram Mohan Roy

2. ❌ Annie Besant
3. ✔️ Justice M G Ranade
4. ❌ Rabindranath Tagore

**Question Number : 92 Question Id : 98606863651 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Find the odd one out:

**Options :**

1. ❌ Dalya
2. ❌ Podh
3. ❌ Kaman
4. ✔️ Gotul

**Question Number : 93 Question Id : 98606863652 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

The term used for a child's one-word utterances is:

**Options :**

1. ❌ Telegraphic speech
2. ❌ Under extensions
3. ✔️ Holophrases
4. ❌ Over extension

**Question Number : 94 Question Id : 98606863653 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Teena wrote a to-do list, but she forgot it at home when she went out for her first activity. When she tried to memorize it, she only remembered the beginning and finish of the list, but not what was in the centre. The preceding scenario is an example of:

**Options :**

1. ❌ Flashbulb memory
2. ❌ Non-Encoding specificity effects
3. ✔️ Serial position effect
4. ❌ Encoding specificity effects

**Question Number : 95 Question Id : 98606863654 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

The modern psycholinguistic theory was developed by:

**Options :**

1.  Chomsky
2.  Kohler
3.  Piaget
4.  Kohlberg

**Question Number : 96 Question Id : 98606863655 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Who proposed the famous PASS theory on psychology?

**Options :**

1.  Binet-Simon
2.  Cattell
3.  J P Das
4.  Thurstone

**Question Number : 97 Question Id : 98606863656 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

The first legislation for social security in India was concerned with:

**Options :**

1.  Maternity Benefit
2.  Provident Fund to employee
3.  Workmen Compensation
4.  Insurance

**Question Number : 98 Question Id : 98606863657 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

The Protection of Women from Domestic Violence Act came into force in the year:

**Options :**

1.  Year 1990
2.  Year 2005
3.  Year 2002
4.  Year 2006



**Question Number : 99 Question Id : 98606863658 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

“Craving” is one of the diagnostic features of:

**Options :**

1. ✘ Anorexia nervosa
2. ✘ Bulimia nervosa
3. ✘ Panic disorder
4. ✔ Alcohol dependence

**Question Number : 100 Question Id : 98606863659 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

“Emic” and “etic” relate to which branch of health research?

**Options :**

1. ✘ Individual psychology
2. ✔ Cultural psychiatry
3. ✘ Cognitive neuroscience
4. ✘ Study of family members

**Question Number : 101 Question Id : 98606863660 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Mini-mental status examination (MMSE) is used for the assessment of:

**Options :**

1. ✔ Cognitive functions
2. ✘ Negative symptoms
3. ✘ Global psychopathology
4. ✘ Psychosis

**Question Number : 102 Question Id : 98606863661 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Werther effect refers to:

**Options :**

1. ✘ Similar delusion among family members
2. ✘ Counter-transference in psychoanalysis
3. ✔ Emulation of suicide
4. ✘ Dependency needs of patients in a psychotherapy situation

**Question Number : 103 Question Id : 98606863662 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following helps to bind avidin in egg whites & make it available to body?

**Options :**

1. ✘ Pyridoxine
2. ✔ Biotin
3. ✘ Albumin
4. ✘ Thiamine

**Question Number : 104 Question Id : 98606863663 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Cholesterol content of egg weighing 100 grams is:

**Options :**

1. ✘ 227 mg
2. ✔ 373 mg
3. ✘ 54 mg
4. ✘ 100 mg

**Question Number : 105 Question Id : 98606863664 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Megaloblastic anaemia is caused by deficiency of:

**Options :**

1. ✘ Vitamin C
2. ✔ Vitamin B12
3. ✘ Vitamin K
4. ✘ Vitamin E

**Question Number : 106 Question Id : 98606863665 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

“Tempeh” is a fermented product of:

**Options :**

1. ✘ rice
2. ✘ wheat
3. ✘ egg
4. ✔ soybean

**Question Number : 107 Question Id : 98606863666 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following fatty acid is saturated fatty acid?

**Options :**

1. ✘ Butyric acid
2. ✘ Oleic acid
3. ✘ Linoleic acid
4. ✔ Palmitic acid

**Question Number : 108 Question Id : 98606863667 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following refers to the term “Externality” in terms of public health?

**Options :**

1. ✔ Third party effect
2. ✘ Inclusive growth
3. ✘ Optimum health care
4. ✘ Social exclusion

**Question Number : 109 Question Id : 98606863668 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Thickener that does not require washing out after printing is:

**Options :**

1. ✘ Emulsion Binder
2. ✘ Gelatin
3. ✘ Starch
4. ✔ Gum

**Question Number : 110 Question Id : 98606863669 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Stone wash is given to denim garments gives them:

**Options :**

1. ✘ Smooth appearance
2. ✔ Worn appearance
3. ✘ Better strength
4. ✘ Abrasion resistance

**Question Number : 111 Question Id : 98606863670 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Depending on the functions of the Consultation-liaison, the various models of Consultation-liaison include the following, EXCEPT:

**Options :**

1. ✘ Liaison model
2. ✘ Bridge model
3. ✘ Hybrid model
4. ✔ Milieu model

**Question Number : 112 Question Id : 98606863671 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Dyslexic refers to an individual who has difficulty in:

**Options :**

1. ✘ learning to stand
2. ✘ learning to speak
3. ✘ learning to express
4. ✔ learning to read and write

**Question Number : 113 Question Id : 98606863672 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

What is the correct order of occurrence of geological eras from oldest to youngest?

**Options :**

1. ✓ Palaeozoic, Mesozoic, Cenozoic
2. ✗ Cenozoic, Palaeozoic, Mesozoic
3. ✗ Mesozoic, Palaeozoic, Cenozoic
4. ✗ Palaeozoic, Cenozoic, Mesozoic

**Question Number : 114 Question Id : 98606863673 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

A pregnant mother has come for her first antenatal visit, she has 2-year-old son born at 40 weeks, 5-year-old daughter born at 38 weeks and 7-year-old twin daughters born at 35 weeks. She had spontaneous abortion 3 years ago at 10 weeks. Using GTPAL format, what nurse shall document in obstetrical history?

**Options :**

1. ✗ G4T3P2A1L4
2. ✗ G5T2P2A1L4
3. ✗ G4T3P1A1L4
4. ✓ G5T2P1A1L4

**Question Number : 115 Question Id : 98606863674 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Calculate the F-test's numerator and denominator degree of freedom, assuming that an investigator randomly allocated 20 patients into three groups.

**Options :**

1. ✗ 3, 57
2. ✗ 3, 20
3. ✗ 2, 20
4. ✓ 2, 57

**Question Number : 116 Question Id : 98606863675 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

An investigator fails to reject the null hypothesis when it is false. What kind of error investigator is making?

**Options :**

1. ✗ Type-I Error
2. ✓ Type-II Error
3. ✗ Type-III Error
4. ✗ Error of Rejection

**Question Number : 117 Question Id : 98606863676 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which is not a type of correlation?

**Options :**

1. ✓ **Multivariate Correlation**
2. ✗ **Multiple Correlation**
3. ✗ **Partial Correlation**
4. ✗ **Simple Correlation**

**Question Number : 118 Question Id : 98606863677 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

A study determines that the mean blood cholesterol level is 195 mg/dL in 200 non-diabetic hospitalized patients and 210 mg/dL in 180 diabetic hospitalized patients. The probability that the observed difference is due to chance alone is reported to be 5%. There is also 20% probability of concluding that there is no difference in blood cholesterol level when there is one in reality. What is the power of the study?

**Options :**

1. ✗ **0.05**
2. ✗ **0.2**
3. ✓ **0.8**
4. ✗ **0.95**

**Question Number : 119 Question Id : 98606863678 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

A study compared drug A versus standard therapy in preventing recurrent pulmonary embolism. The absolute risk reduction for drug A versus standard therapy was 4%. The incidence of recurrent pulmonary embolism in the standard therapy group was 6%. There were 24 patients who developed recurrent pulmonary embolism in the drug A group. How many total subjects were there in the drug A group?

**Options :**

1. ✗ **600**
2. ✓ **1200**
3. ✗ **900**
4. ✗ **1800**

**Question Number : 120 Question Id : 98606863679 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

A 28-year-old woman comes to a clinic for routine health check-up. She recently moved to Delhi to begin a job as a copy editor at a major newspaper. She has no known medical problems. The patient usually eats fast food for lunch and she cooks in the evenings. She goes to the gym once in two weeks. The patient's temperature, blood pressure, pulse and respiratory rate are within normal limits. Her blood investigations are also within normal range and her BMI is 24 kg/m<sup>2</sup>. Counselling the patient regarding diet and exercise habits would be an example of which of the following?

**Options :**

1. ✘ Cognitive behaviour therapy
2. ✘ Community level intervention
3. ✔ Health promotion
4. ✘ Tertiary prevention

**Question Number : 121 Question Id : 98606863680 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Perfect positive correlation was found between two series of X and Y. If the covariance between them was 2 and variance of X was 4, then the variance of Y series is:

**Options :**

1. ✔ 1
2. ✘ 0.5
3. ✘ 0.6
4. ✘ 0.75

**Question Number : 122 Question Id : 98606863681 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which one of the following statement (s) is (are) true?

- I. Karl Pearson correlation coefficient range in the value from -1 to + 1
- II. Multiple correlation coefficient range in the value from -1 to +1
- III. Partial correlation coefficient range in the value from 0 to +1.

**Options :**

1. ✔ Only I
2. ✘ Only I and II
3. ✘ Only I and III
4. ✘ Only III

**Question Number : 123 Question Id : 98606863682 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

The relationship between the monetary units of two gold standard countries is called:

**Options :**

1. ✘ Course of Exchange
2. ✔ Mint par of exchange
3. ✘ Cross rates
4. ✘ Arbitrated rate of Exchange

**Question Number : 124 Question Id : 98606863683 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Kelly's method of constructing weighted index numbers is also called:

**Options :**

1. ✘ Aggregative weight method
2. ✘ Arithmetic weight method
3. ✘ Ideal index method
4. ✔ Fixed weight aggregative method

**Question Number : 125 Question Id : 98606863684 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

A study was launched to evaluate a novel method to detect cervical precancerous intraepithelial lesions. The test's specificity and sensitivity are 80% and 75%, respectively. There are 600 participants in the trial, 200 of whom have cervical precancerous intraepithelial lesions that has been definitively diagnosed using the gold standard of diagnostics. How many false negatives should the study be expected to have?

**Options :**

1. ✔ 50
2. ✘ 80
3. ✘ 120
4. ✘ 400

**Question Number : 126 Question Id : 98606863685 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

A new low-priced haemoglobin detection device is being developed for use. During clinical trials of an early prototype, a patient's haemoglobin level is found to be 10 mg/dL, 10.1 mg/dL, and 10 mg/dL, on three separate measurements of the same blood sample. Using the gold standard measurement method, the same sample is found to have a haemoglobin level of 14 mg/dL Which of the following descriptions most accurately characterizes the new haemoglobin detection device?



**Options :**

1. ✓ Low accuracy, High precision
2. ✗ High accuracy, Low precision
3. ✗ High accuracy, High precision
4. ✗ Low accuracy, Low precision

**Question Number : 127 Question Id : 98606863686 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

A student obtained Z-score of 2 in statistics. Assuming, scores are normally distributed. In what percentile student's score fall?

**Options :**

1. ✗ 68 percent
2. ✗ 92.5 percent
3. ✗ 95 percent
4. ✓ 97.5 percent

**Question Number : 128 Question Id : 98606863687 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

What is the measurement for x-axis and y-axis in the scatter plot?

**Options :**

1. ✓ Both x-axis and y-axis are continuous
2. ✗ Neither x-axis nor y-axis is continuous
3. ✗ Only x-axis is continuous
4. ✗ Only y-axis is continuous

**Question Number : 129 Question Id : 98606863688 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

A large cohort study is carried out to examine the relationship between smoking and oropharyngeal squamous cell carcinoma. Smokers are 5 times more likely than non-smokers to develop oropharyngeal cancer over a 10-year follow-up (relative risk = 5.0, 95% confidence interval = 2.9-7.1). What proportion of smokers' oropharyngeal cancer may be linked to smoking, based on the study's findings?

**Options :**

1. ✗ 25 percent
2. ✗ 50 percent
3. ✗ 70 percent
4. ✓ 80 percent

**Question Number : 130 Question Id : 98606863689 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

The population of a state was projected to be 400,000 in 2022. The state claimed having 20,000 cases of a rare and fatal cardiovascular disease at the start of the same year. The state reported 7,000 new cases and 1,000 deaths associated with this illness by the end of 2022. At the end of the year, there were 40,000 additional fatalities from all other causes. What will the disease's total incidence be in 2022?

**Options :**

1. ✘ 1,000/ 4,000,000
2. ✔ 7,000/ 3,980,000
3. ✘ 6,000/ 4,000,000
4. ✘ 26,000/ 3,959,000

**Question Number : 131 Question Id : 98606863690 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

A new dipstick test for detecting urinary tract infections (UTIs) is being tested in a research lab. To determine the diagnostic test parameters, the novel test is contrasted with urinalysis of a midstream urine specimen, which is regarded as the gold standard. There are 300 participants in the trial, and a urinalysis revealed that 100 of them have a UTI. For the diagnosis of UTIs, the novel dipstick test is found to be 70% sensitive and 90% specific. What percentage of the study's results are false positives?

**Options :**

1. ✘ 120
2. ✔ 20
3. ✘ 30
4. ✘ 70

**Question Number : 132 Question Id : 98606863691 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

A drug's effectiveness in treating heart failure patients is investigated in a study. For two years, 350 patients are given either the drug or a placebo. Patients as well as doctors are unaware of which patient is taking the drug or a placebo. The above-described study design is most successful in avoiding:

**Options :**

1. ✘ Selection bias
2. ✘ Beta error
3. ✔ Observer bias
4. ✘ Recall bias

**Question Number : 133 Question Id : 98606863692 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

The Statistical tests make certain assumptions. These assumptions are made for:

**Options :**

1. ✘ Sample
2. ✔ Population
3. ✘ Data
4. ✘ Variable

**Question Number : 134 Question Id : 98606863693 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following best describes the study design for a study aiming to provide a detailed description of the CT scan findings of COVID-19 patients. Ten cases with COVID-19 are selected for the study, and their CT scans were examined and classified to determine the specific findings associated with the disease.

**Options :**

1. ✔ Case series
2. ✘ Clinical trial
3. ✘ Case-control
4. ✘ Cohort

**Question Number : 135 Question Id : 98606863694 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following best describes the study design for an investigation into the effectiveness of a medicinal ointment applied topically to prevent surgical-site infection in patients undergoing resection of breast cancer? Sixty patients who underwent locoregional resection were randomly assigned to one of two groups: standard care alone or standard care supplemented with the ointment. The patients were then monitored for one month, and the occurrence and severity of surgical-site infections were documented for each group.

**Options :**

1. ✔ Randomised control trial
2. ✘ Case-control study
3. ✘ Prospective cohort study
4. ✘ Retrospective Cohort study

**Question Number : 136 Question Id : 98606863695 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Who founded Charity Organization Society (COS)?

**Options :**

1. ✘ Edward
2. ✘ Beveridge
3. ✘ Samuel Augustus Barnett
4. ✔ Octavia Hill

**Question Number : 137 Question Id : 98606863696 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

In which year an Inter-Departmental Committee on Social Insurance and Allied Services was appointed under the chairmanship of Sir William Beveridge?

**Options :**

1. ✘ Year 1921
2. ✘ Year 1946
3. ✔ Year 1941
4. ✘ Year 1922

**Question Number : 138 Question Id : 98606863697 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Buprenorphine is a:

**Options :**

1. ✘ Stimulant
2. ✔ Opioids
3. ✘ Hallucinogen
4. ✘ Sedative-hypnotic

**Question Number : 139 Question Id : 98606863698 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

The first rank symptoms of schizophrenia are all, EXCEPT:

**Options :**

1. ✔ 2nd person auditory hallucination
2. ✘ Delusion of control
3. ✘ Thought broadcast

4. ✘ Somatic passivity

**Question Number : 140 Question Id : 98606863699 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Hypochondriasis is:

**Options :**

1. ✘ Belief and preoccupation of having extraordinary power
2. ✘ Preoccupation with somatic symptoms
3. ✔ Belief and preoccupation of having an illness
4. ✘ Belief and preoccupation that someone is going to harm

**Question Number : 141 Question Id : 98606863700 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Adolescent age group as per the WHO is:

**Options :**

1. ✘ 13-19 years
2. ✘ 12-19 years
3. ✔ 10-19 years
4. ✘ 10-21 years

**Question Number : 142 Question Id : 98606863701 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

What is the full form of RMNCH+A strategy of National Health Mission?

**Options :**

1. ✔ Reproductive, Maternal, Newborn, Child and Adolescent Health
2. ✘ Reproductive, Maternal, Neonatal, Child and Adult Health
3. ✘ Reproductive, Maternal, Newborn Child and Aged Health
4. ✘ Reproductive, Mental Health, Newborn Care and Adult Health

**Question Number : 143 Question Id : 98606863702 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Dhat syndrome was first coined by:

**Options :**

1. ✘ Venkoba Rao
2. ✘ Sarada Menon
3. ✔ N.N. Wig
4. ✘ Ajit Avasthi

**Question Number : 144 Question Id : 98606863703 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Briquet's disorder is also known as:

**Options :**

1. ✘ Dysthymia
2. ✘ Social anxiety disorder
3. ✘ Conversion disorder
4. ✔ Somatization disorder

**Question Number : 145 Question Id : 98606863704 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Which of the following disorder has been included in the ICD 11?

**Options :**

1. ✔ Gaming disorder
2. ✘ Compulsive buying
3. ✘ Hypersexual disorder
4. ✘ Internet addiction

**Question Number : 146 Question Id : 98606863705 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

As per the National Mental Health Survey, the treatment gap for depressive disorder in India is approximately:

**Options :**

1. ✘ 35 percentage
2. ✘ 45 percentage
3. ✘ 65 percentage
4. ✔ 85 percentage

**Question Number : 147 Question Id : 98606863706 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

According to 2011 Census, the Tribal population constitutes:

**Options :**

1. ✘ 6.1% of India's population
2. ✘ 12.2% of India's population
3. ✔ 8.6% of India's population
4. ✘ 15.3% of India's population

**Question Number : 148 Question Id : 98606863707 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Homo heidelbergensis was discovered in:

**Options :**

1. ✘ Austria
2. ✘ Poland
3. ✔ Germany
4. ✘ France

**Question Number : 149 Question Id : 98606863708 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

Main Line Formula is concerned with:

**Options :**

1. ✘ Hardy Weinberg law
2. ✘ Bergmann's rule
3. ✘ Human Growth and Development
4. ✔ Dermatoglyphics

**Question Number : 150 Question Id : 98606863709 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0.25**

Question Label : MCQ

SRK Chopra was associated with the discovery of:

**Options :**

1. ✔ Gigantopithecus

2. ✘ Australopithecus
3. ✘ Homo habilis
4. ✘ Aegyptopithecus