ANATOMY

S. No.	Topics
	Chest and Abdomen
1.	What are normal laparoscopic/endoscopic anatomical view/ variations of the triangle of doom, triangle of pain, Callot's triangle.
2.	Descriptive study of laparoscopic anatomy of the uterus, ovary and its surroundings.
3.	Comparison of kidney morphometric parameters in adult population of age group 20-60 using Ultrasonography -USG (Here target organ and Radiological modality can be changed).
4.	Descriptive study of endoscopic anatomy of the mediastinum.
	Upper and lower limbs
5.	Descriptive study of endoscopic anatomy of the knee joint.
6.	Estimate the correlation of length of bony segment with respect to height of an individual.
7.	To study changes in weight transmission mechanics after knee replacement.
8.	Comparative Anatomy of the skeletal structures of different vertebrate groups, such as mammals, reptiles, and fish, exploring variations in bone morphology, adaptations for locomotion, and skeletal specialization.
	Head and neck
9.	Describe the endoscopic anatomy of the nose and paranasal sinuses?
10.	Describe the endoscopic anatomy of the vertebral canal/ intervertebral foramina?
11.	Describe the morphometry of the vertebral body, lamina of various vertebral bodies (lumber, cervical).
12.	Relationship of intervertebral disc and nerve root in the intervertebral foramen of lumbar spine: A comparative cadaveric & magnetic resonance imaging study.
13.	Magnetic Resonance Imaging based study of the volume of Gray Matter of the amygdala in patients with depressive disorder.

14.	To study the morphological and histological changes in the brain as a
	result of consumption of narcotics (animal model study) (may be done in
	high resource settings).
15.	What are the morphological, biological or histochemical correlations of
	evolution of human brain?
16.	Stereological Estimation of Brain Volume Using Cavalieri Principle in
	Normal Population and Patients Suffering from Neurological Diseases by
	Radiological Images.
17.	Volumetric analysis of Paranasal air sinuses and mastoid air cells using
	Computerized Tomography scans.
	Microanatomy and histology
18.	Histological study of the various brain organs with aging e.g.
10.	hippocampus.
19.	Cross sectional study of histological & histochemical effect of prolonged
15.	use of Non-Steroidal Anti-Inflammatory Drugs on liver of mice.
20.	To study cell migration and histogenesis of human cerebellum (in-vitro
	study).
21.	Morphological, biological or histochemical based study of aging process
	and how humans can slow it down.
22.	How exhaustion, injuries, and stress influence muscles and cells and
	explore role of interventions like Yoga, meditation or aerobics, etc.
23.	What is the role of T-cells/regulatory cells in immunological memory
	phenomenon?
24.	To study the neural, muscular or conductor network of cardiovascular
	system.
25.	What are the clinical implications of myocardial bridge over coronary
	arteries and myocardial coat lining coronary sinus?
26.	Cytomorphometrical analysis of exfoliated buccal mucosal cells in
	smokers, thyroid, and Hypertensive patients.
	Embryology
27.	Why Anencephaly is very common in certain regions of India?
28.	What are the effects of environmental condition on developing chick
	embryo?
	General
29.	What are the variations in radiological anatomy of various regions of the
	body? (bronchial tree, coronary arteries, renal arteries, Computed

	Tomography, Magnetic Resonance Imaging of brain, thorax, abdomen
	pelvis etc.).
30.	How to do 3Dimensional reconstruction, 3D printing of Computed
	Tomography or Magnetic Resonance pictures of normal organs of the
	body? Example: 3D reconstruction of surgical segments of liver.
31.	Morphological changes in organs after treatment with herbal products in
	mice.
32.	Effects of karela juice (bitter gourd) on rat model of diabetes mellitus.
33.	To investigate the role of technology-enhanced 3D images in students
	gross and radiological anatomy learning.
34.	What are the effects of peer assisted learning in gross anatomy teaching?
35.	What are the correlations between stress and activity of blood cells?
36.	Histo-anatomical changes in liver following chronic alcohol intake.
37.	Role of interventions like Yoga, meditation, or aerobics, etc in slowing
	down hippocampal ageing.
38.	Comparative Anatomical study of right and left coronary artery in human
	cadaveric hearts (Older vs Young Individuals).
39.	How toxic chemicals affect the human health including the teratological
	effects?
40.	What is the relationship between Standing Static Position, Balance,
	Muscles, and Anthropometric Measurements in young adult's population.
41.	To evaluate the mitochondrial DNA deletion in cases of infertile male
	patients.