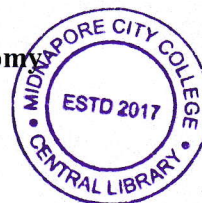


**The West Bengal University of Health Sciences**  
**B.Sc. in Medical Microbiology 1st Semester March, 2023**  
**Examination**

Subject : Basic of Human Anatomy



Time : 2 hrs.

Full Marks : 50

*Attempt all questions*

1. Tick the correct answer : 10 x 1
- a) A difference in the number of positive and negative charges on the two sides of a membrane is referred to :  
 i) Action potential. ii) Membrane potential. iii) Membrane impulse. iv) Charge difference.
  - b) During which phase the nuclear envelope dissolve and the chromatin condenses?  
 i) Metaphase. ii) Prophase. iii) Interphase. iv) Intraphase.
  - c) Which system protects deeper tissues from injury?  
 i) Immune system. ii) Muskulo-skeletal system.  
 iii) Integumentary system. iv) Lymphatic system.
  - d) Which is not an endocrine gland?  
 i) Pituitary. ii) Thyroid. iii) Parotid. iv) Adrenal Cortex.
  - e) Fertilization takes place in \_\_\_\_\_ part of the uterine tube.  
 i) Isthmus. ii) Ampulla. iii) Interstitial part. iv) Infundibulum.
  - f) Which of the following helps Human sperm with locomotion?  
 i) Flagellum. ii) Basal body. iii) Nucleosome. iv) Cilia.
  - g) Which of the following is the inner most layer of human eye?  
 i) Retina. ii) Choroid. iii) Sclera. iv) Cornea.
  - h) Which of the following control breathing rate in humans?  
 i) Cerebellum. ii) Hypothalamus. iii) Thalamus. iv) Medulla oblongata.
  - i) Which of the following is the vestigial bony part of the human skeleton?  
 i) Cranium. ii) Coccyx. iii) Cervical spine. iv) Clavicle.
  - j) Which of the following type of cartilage is present at the joints of long bones in humans?  
 i) Fibrous. ii) Hyaline. iii) Elastic. iv) Calcified.
2. Answer **any four** of the following questions : 4 x 2
- a) Name the anterior pituitary hormones.
  - b) Name the intestinal glands.
  - c) Difference between JG and cortical nephron.
  - d) What are the functions of synovial fluid?
  - e) Name the descending nerve tracts.
  - f) What are the different basic types of tissue in human?
3. Answer **any four** of the following questions : 4 x 4
- a) Classify nervous system in human.
  - b) Draw the histological structure of testis.
  - c) Mention the functions of human growth hormone.
  - d) Explain cross-sectional view of artery.
  - e) Explain the gross anatomical layers of cerebellum.
  - f) Function of CSF.
4. Answer **any two** of the following questions : 2 x 8
- a) Mention types, distribution and functions of cranial nerves.
  - b) Describe the ultra-structure of skeletal muscle and neuromuscular junction with diagram.
  - c) Explain the cross-sectional structure of liver and the functions.