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Question Paper Code: 93B02

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2020

Third Semester

Biomedical Engineering

19UBM302 – HUMAN ANATOMY AND PHYSIOLOGY

(Regulation 2019)

Duration: One hour

Maximum: 30Marks

PART A - (6 x 1 = 6 Marks)

(Answer any six of the following questions)

1. Who discovered cell? CO1- R
(a) Robert Hook (b) Robert Crook (c) David Thomson (d) Marie Francois
2. Sodium ions and calcium ions are examples of _____ CO1- R
(a) Cations (b) Anions (c) Salts (d) Buffers
3. Which cells in the blood do not have a nucleus? CO2-R
(a) Lymphocyte (b) Monocyte (c) Basophil (d) Erythrocyte
4. Which of the following allows gas exchange in the lungs? CO2- R
(a) Alveoli (b) Bronchi (c) Capillaries (d) Bronchioles
5. The anatomic location of the spinal canal is _____ CO3- R
(a) Caudal (b) Dorsal (c) Frontal (d) Transverse
6. An involuntary response by the nervous system to a stimulus is a CO3- R
(a) Synapse (b) Reflex
(c) Motor response (d) Smooth muscle
7. Which of the following is located in the abdomino-pelvic cavity? CO4- R
(a) Heart (b) Trachea (c) Thymus gland (d) Kidney
8. Which of the following structures is part of the small intestine? CO4- R
(a) Ileum (b) Cecum (c) Sigmoid colon (d) Transverse colon
9. Number of bones in the human body is _____ CO5- U
(a) 260 (b) 370 (c) 306 (d) 206

10. Which of the following bones in the skull is movable? CO5- U
(a) Mandible (b) Nasal bone (c) Maxilla (d) Temporal bone

PART – B (3 x 8= 24 Marks)

(Answer any three of the following questions)

11. Illustrate the life cycle and process of cell division with diagrams. CO1- Ana (8)
12. Describe the events taking place during cardiac cycle and explain them in detail. CO2- U (8)
13. Illustrate different brain lobes with its functional areas controlling different parts of human body with clinical importance. CO3- Ana (8)
14. Describe the structure of kidney and its functions, explain filtration, secretion and reabsorption process. CO4- Ana (8)
15. Describe the types of joints and draw diagrams wherever necessary. CO5- U (8)