

**D.PHARM.
FIRST YEAR
HUMAN ANATOMY & PHYSIOLOGY
ER20-14T**
(USE OMR FOR OBJECTIVE PART)

**SET
A**

Duration : 3 hrs.

Full Marks : 80

(PART-A: Objective)

Choose the correct answer from the following:

1×20=20

- Which of the following mixes with food, softens it and breaks it.
 - Saliva
 - Bile
 - Pancreatic juice
 - None of the above
- The function of food pipe is-
 - Transferring food from mouth to throat
 - Transferring food from mouth to stomach
 - Transferring food from mouth to the intestine
 - All of these
- Which of the following enzymes are responsible for digestion of proteins
 - Lipase
 - Trypsin
 - Pepsin
 - None of the above
- Which of the following tissues helps in body movement-
 - Epithelial tissue
 - Connective tissue
 - Nervous tissue
 - Skeletal tissue
- The smallest independently functioning biological unit of life
 - Cell
 - Molecules
 - Organs
 - Tissues
- The other name of knee cap is
 - Femur
 - Clavicle
 - Radius
 - Patella
- Ulna is a bone found in
 - Skull
 - Arms
 - Chest
 - Legs
- The process of formation of blood corpuscles
 - Haemolysis
 - Haemozoin
 - Haemopoisis
 - Haemoter
- Synovial joint cavities are filled with
 - Synovial fluid
 - Vitreous fluid
 - Serous Fluid
 - Blood
- Total no of facial bones are-
 - 13
 - 14
 - 15
 - 16

11. Thick filament is made up of
 - a. Troponin
 - b. Tropomyosin
 - c. Actin
 - d. Myosin
12. What is the main function of lymphatic system
 - a. To communicate information throughout the body
 - b. To distribute oxygenated blood to all parts of the body
 - c. To protect the body from disease and remove waste products from the cells
 - d. All of the body
13. The common passage for both food and air is-
 - a. Esophagus
 - b. Trachea
 - c. Pharynx
 - d. Larynx
14. Central nervous system consists of
 - a. Brain, spinal cord, and nerves
 - b. Brain only
 - c. Spinal cord and spinal nerves
 - d. Brain and spinal cord
15. The nerve that contains sensory fibers that are involved in hearing
 - a. Cranial nerve II
 - b. Cranial nerve III
 - c. Cranial nerve V
 - d. Cranial nerve VIII
16. Kidneys help to
 - a. Maintain blood volume
 - b. Maintain Blood pressure
 - c. Control blood pH
 - d. All of the above
17. The innermost layer of human eye is
 - a. Sclera
 - b. Cornea
 - c. Choroid
 - d. Retina
18. Gland that is located at the base of the throat just above Adam's apple
 - a. Pituitary gland
 - b. Thyroid gland
 - c. Hypothalamus
 - d. Pineal gland
19. Control of temperature, endocrine activity, metabolism, and thirst are function associate with
 - a. Medulla oblongata
 - b. Cerebellum
 - c. Hypothalamus
 - d. Cerebrum
20. What is the function of gastrin
 - a. Secretion of HCL
 - b. Enhancing gastric and mucosal growth
 - c. Gastric motility
 - d. All of the above

(PART-B: Short Answers)

[Answer any ten (10) from the following]

[3x10=30]

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|---|-------|
| 1. Define Skeletal System. Write the names of bones of axial skeletal system. | 1+2=3 |
| 2. Draw the diagram of brain and define its parts. | 3 |
| 3. Draw and label the urinary system and write down its functions. | 2+1=3 |
| 4. Explain cardiovascular system with proper diagram. | 3 |
| 5. Write down the function of spleen. | 3 |
| 6. Define Nervous system and classify it. | 1+2=3 |
| 7. Name the various parts of Human respiratory System with diagram. | 3 |
| 8. Write down the mechanism of breathing. | 3 |
| 9. What are the functions of Bile? | 3 |
| 10. What do you mean by digestion? | 3 |
| 11. Explain the mechanism of Renin Angiotensin System. | 3 |

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[PART-C : Long Answers]

[Answer any six (6) from the following]

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| 1. Define all the digestive enzymes and mention their functions. | [5x6=30]
5 |
| 2. Explain briefly about the conduction system of heart. | 5 |
| 3. Write in detail about the physiology of muscle contraction. | 5 |
| 4. Write a brief note on | |
| a. Mitochondria | 1 |
| b. Plasma membrane | 1 |
| c. Golgi apparatus | 1 |
| d. Ribosome | 1 |
| e. Cytoplasm. | 1 |
| 5. Write in detail about coagulation of blood. | 5 |
| 6. Write about the anatomy and Physiology of eye. | 3+2=5 |
| 7. Define the physiology of urine formation. | 5 |

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