

**D.PHARM.
FIRST YEAR
HUMAN ANATOMY & PHYSIOLOGY
ER20-14T [SPECIAL REPEAT]**
(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 consist 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

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[PART-B : Short Answers]

[Answer any ten (10) from the following]

[3x10=30]

1. Write down the function of spleen.
2. Draw the diagram of brain and define its parts.
3. Name the various parts of Human respiratory System with diagram.
4. Explain cardiovascular system with proper diagram.
5. Define Skeletal System. Write features of bones of axial skeletal system.
6. Define Nervous system and classify it.
7. Write a note nucleus on plasma membrane, mitochondria and nucleus.
8. What do you mean by digestion?
9. What are the functions of Bile?
10. Write down the mechanism of breathing.
11. Explain the mechanism of Renin Angiotensin System.

(PART-C : Long Answers)

[Answer any six (6) from the following]

[5x6=30]

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

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