

HUMAN ANATOMY AND PHYSIOLOGY

Time Allowed : 3:00 Hours

Maximum Marks : 80

- Notes:** (i) Attempt all questions.
 (ii) Students are advised to specially check the numerical data of question paper in both versions. If there is any difference in Hindi translation of any question, the students should answer the question according to the English version.
 (iii) Use of Pager and Mobile Phone by the students is not allowed.

Part - A

(Long Answer Type Questions)

Note : Answer any six questions. Each question carries equal marks. [6x5=30]

- Q.1. Draw a well labelled diagram animal cell showing its cell organelles and write their functions.
 Q.2. Define Respiration. Discuss the respiratory volume and capacity. Describe the mechanism of gaseous exchange.
 Q.3. Differentiate between Paracrine and Exocrine glands with examples.
 Q.4. Explain the process of haematopoiesis. Write about functions of RBCs, WBCs and platelets.
 Q.5. Classification, types and movements of joints.
 Q.6. Write in detail about functions of lymph node and spleen.
 Q.7. Write short notes on any two of the following :
 (a) ECG (b) Eye (c) Functions of Kidney (d) Spermatogenesis

Part - B

Note : Answer any ten questions. Each question carries equal marks. [10x3=30]

- Q.1. Functions of bones
 Q.2. Blood groups
 Q.3. Function of accessory glands of digestive system
 Q.4. Heart sounds
 Q.5. Menstrual cycle
 Q.6. Explain any disorder of skeletal muscles.
 Q.7. Function of hypothalamus
 Q.8. Adrenal gland
 Q.9. Trimesters of Pregnancy
 Q.10. Anatomy of urinary system
 Q.11. Diabetes

Part - C**Note :** Answer **all** questions. Each question carries **equal** marks.

[20x1=20]

Multiple Choice Questions :

- Q.1. Who discovered the ABO blood group system?
(a) William Harvey (b) Andreas Vesalius
(c) Karl Landsteiner (d) Karl Correns
- Q.2. How many bones are present in an adult human skeleton?
(a) 106 (b) 188
(c) 206 (d) 256
- Q.3. Insulin is secreted from which of the following?
(a) Liver (b) Pancreas
(c) Salivary glands (d) Stomach
- Q.4. Which of the following is also known as 'Master gland'?
(a) Lacrimal gland (b) Pituitary gland
(c) Pineal gland (d) Mammary gland
- Q.5. Which of the following is the smallest bone in human body?
(a) Stapes (b) Radius
(c) Femur (d) Humerus
- Q.6. Which of the following is also known as wind pipe?
(a) Pharynx (b) Bronchiole
(c) Larynx (d) Trachea
- Q.7. The process of expelling urine from the body is called as :
(a) Menstruation (b) Micturition
(c) Mastication (d) Uremia

Fill in the blanks :

- Q.8. Red blood cells are also called as _____.
- Q.9. Blood pressure is measured by _____.
- Q.10. The largest gland in human body is _____.
- Q.11. The loss of transparency of the lens causes a defect in the eye is called _____.
- Q.12. Cell organelle found inside the nucleus is _____.
- Q.13. Pleura is the membrane around the _____.
- Q.14. Generally a sudden fatal heart attack may occur due to complete blockade of _____ artery.

One word/One sentence questions :

- Q.15. What is Human Physiology?
- Q.16. Name the parts of brain.
- Q.17. In which organ rods and cones are found?
- Q.18. Give an example of Ball and Socket Joint.
- Q.19. How many pairs of cranial nerves are present in our body?
- Q.20. What is Parturition?