

Total No. of printed pages = 3

**BP 101 T**

Roll No. of candidate

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**2021**

**B. Pharm. 1<sup>st</sup> Semester End-Term Examination**

**HUMAN ANATOMY AND PHYSIOLOGY - I**

Full Marks - 75

Time - Three hours

The figures in the margin indicate full marks for the questions.

1. Multiple choice questions (answer all questions) : (20 × 1 = 20)
- (i) Which matured cells in the blood do not have a nucleus?
- (a) RBC (b) WBC  
(c) Platelets (d) None of the above
- (ii) Which of the following is flexible connective tissue that is attached to bones at the joints?
- (a) Nerve (b) Cartilage  
(c) Epithelial (d) Muscle
- (iii) What is the main function of the rods in the eye?
- (a) depth perception (b) color vision  
(c) vision in dim light (d) accommodation for near vision
- (iv) Receptors for hearing are located in the
- (a) cochlea (b) semicircular canals  
(c) tympanic membrane (d) vestibule
- (v) Pulse can check at neck using the
- (a) Brachial artery (b) Jugular vein  
(c) Carotid artery (d) Popliteal vein
- (vi) Which part of the intrinsic conduction system starts the heart beat?
- (a) SA node (b) AV node  
(c) The Bundle of His (d) All of the above

[Turn over

- (vii) Lymph nodes are found in
- |                 |                  |
|-----------------|------------------|
| (a) neck region | (b) axilla       |
| (c) groin       | (d) All of Above |
- (viii) Actin interact with \_\_\_\_\_ for muscle contraction
- |               |             |
|---------------|-------------|
| (a) Cytokinin | (b) Myosin  |
| (c) Tyrosin   | (d) Thlamin |
- (ix) Spinal nerve carries:
- |                     |                    |
|---------------------|--------------------|
| (a) Motor signal    | (b) Sensory signal |
| (c) Autonomic Signa | (d) All of these   |
- (x) Baroreceptor helps in
- |                     |                     |
|---------------------|---------------------|
| (a) Urine formation | (b) Blood Pressure  |
| (c) Pupil dilation  | (d) Menstrual cycle |
- (xi) Which of the following controls body temperature, sleep and appetite?
- |                   |                  |
|-------------------|------------------|
| (a) Adrenal gland | (b) Hypothalamus |
| (c) Pancreas      | (d) Thalamus     |
- (xii) Tissue found in salivary glands
- |                                  |                                 |
|----------------------------------|---------------------------------|
| (a) Cuboidal epithelium          | (b) Simple squamous Epithellium |
| (c) Pseudo Stratified epithelium | (d) Simple columner Epithelium  |
- (xiii) Lysosome performs which of the following cellular functions
- |                              |                             |
|------------------------------|-----------------------------|
| (a) Formation of microtubule | (b) Generate Energy         |
| (c) Protein Synthesis        | (d) Intracellular digestion |
- (xiv) Which of the following is the master gland of endocrine system?
- |             |               |
|-------------|---------------|
| (a) Adrenal | (b) Pancreas  |
| (c) Pineal  | (d) Pituitary |
- (xv) Last part of tounge has taste buds for \_\_\_\_\_ Taste.
- |            |          |
|------------|----------|
| (a) Bitter | (b) Salt |
| (c) Sweet  | (d) Sour |
- (xvi) Name the artery which carries deoxygenated blood.
- |               |            |
|---------------|------------|
| (a) Carotid   | (b) Aorta  |
| (c) Pulmonary | (d) Radial |
- (xvii) Rhesus (Rh) factor is an inherited protein found on the surface of
- |              |                      |
|--------------|----------------------|
| (a) RBC      | (b) WBC              |
| (c) Platelet | (d) All of the above |

(xviii) Which of the following is not a lymphatic tissue?

- |            |                 |
|------------|-----------------|
| (a) Heart  | (b) Spleen      |
| (c) Thymus | (d) Bone marrow |

(xix) The joints present in the knee

- |            |                   |
|------------|-------------------|
| (a) Pivot  | (b) Hinge         |
| (c) Saddle | (d) Ball & Socket |

(xx) Vit B12 deficiency is called as

- |                       |                        |
|-----------------------|------------------------|
| (a) Pernicious anemia | (b) Sickle cell anemia |
| (c) Aplastic anemia   | (d) Thelessemia        |

2. Write short note on following questions (any seven) (7 × 5 = 35)

- (a) What do you mean by anemia? Explain its various types.
- (b) Write an elaborated note on structure and function of plasma membrane.
- (c) Write a short note on cranial nerves with emphasis on their functions.
- (d) Classify joints. Write a short note on synovial joint.
- (e) Write about various events occurs at neuromuscular junction.
- (f) Write a note on cardiac cycle.
- (g) Discuss about the anatomy and physiology of Eye with diagram.
- (h) Explain the physiology of muscle contraction.
- (i) Write the significance of Reticulo endothelial system.

3. Long question (answer any two) (2 × 10 = 20)

- (a) Explain the importance of Rh factor and its significance. Write a note on regulation of blood Pressure.
- (b) Define Co-agulation. Explain detailed coagulation mechanism. Write a short note on nerve action potential.
- (c) Explain in detailed structure and function of cell with neat labelled diagram. Classify tissue with example.