

01/01/2024

Seat Number

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DAGDU-12

**BP 101T : Human Anatomy and Physiology-I  
(711101)**

Total Pages : 3]

Time: 3 Hours

Max. Marks : 75

Instruction to candidates:

- 1 Do not write anything on question paper except Seat number.
- 2 Graph or diagram should be drawn with black ink pen being used for writing paper or black HB pencil.
- 3 Students should note, no supplement will be provided.
- 4 All questions are compulsory.
- 5 Figures to the right indicate full marks.

**1. Solve the MCQs**

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(i) One of the following is referred as primary pacemaker of heart.

- |                   |                     |
|-------------------|---------------------|
| (a) Bundle of His | (b) AV node         |
| (c) SA node       | (d) Purkinje fibers |

(ii) Following drugs causes mydriasis except

- |                   |                 |
|-------------------|-----------------|
| (a) Acetylcholine | (b) Adrenaline  |
| (c) Noradrenaline | (d) Epinephrine |

(iii) RBC count in human is in \_\_\_\_\_

- |              |                      |
|--------------|----------------------|
| (a) Millions | (b) Thousands        |
| (c) Tens     | (d) All of the above |

(iv) Axial skeleton of human consists of total bones

- |         |        |
|---------|--------|
| (a) 81  | (b) 88 |
| (c) 126 | (d) 80 |

(v) Hormone required to initiate uterine contraction is

- |         |              |
|---------|--------------|
| (a) ADH | (b) Oxytocin |
| (c) PTH | (d) TSH      |

(vi) Collagen is present in the tissue

- |                       |                       |
|-----------------------|-----------------------|
| (a) Epithelial tissue | (b) Muscular tissue   |
| (c) Nervous tissue    | (d) Connective tissue |

- (vii) Toughest layer of skin is  
(a) Stratum corneum (b) Stratum luciderm  
(c) Stratum granulosum (d) All of the above
- (viii) Total number of spinal nerves in human body are \_\_\_\_\_  
(a) 30 (b) 31  
(c) 29 (d) 32
- (ix) Cribriform papillae sense the \_\_\_\_\_  
(a) Taste (b) Vision  
(c) Sound (d) Touch
- (x) Normal heart beat count of human body is \_\_\_\_\_  
(a) 66 (b) 90  
(c) 72 (d) 100
- (xi) Coronary artery supplies the blood to  
(a) Heart (b) Lungs  
(c) Liver (d) Brain
- (xii) Universal donor receives the blood from  
(a) AB (b) A  
(c) B (d) O
- (xiii) Largest lymphatic organ is  
(a) Bone marrow (b) Thymus  
(c) Tonsils (d) Spleen
- (xiv) Sympathetic system comes under the \_\_\_\_\_  
(a) CNS (b) Brain  
(c) Spinal Cord (d) PNS
- (xv) An example of ball and socket joint is  
(a) Shoulder Joint (b) Ankle Joint  
(c) Knee Joint (d) Elbow Joint

(xvi) Lymphocytes are of two types, they are

- (a) T-cells and erythrocytes (b) Erythrocytes and Platelets
- (c) T-cells and Platelets (d) T-cells and B-cells

(xvii) The most important cell type associated with the immunity of the body is

- (a) WBC (b) RBC
- (c) Platelets (d) None of the above

(xviii) Following are waves in ECG except

- (a) P wave (b) QRS wave
- (c) T wave (d) Z wave

(xix) The Nodes of Ranvier are found in

- (a) Cardiac cells (b) Hepatocytes
- (c) Nerve cells (d) All of the above

(xx) Renin is released from

- (a) Lungs (b) Kidney
- (c) Liver (d) Produce hemoglobin

**2. Solve any two**

**20**

- (i) Write detail note on composition and functions of blood.
- (ii) Explain structure and functions of skin.
- (iii) Explain anatomy of eukaryotic cell.

**3. Solve any seven**

**35**

- (i) Write a note on blood group systems.
- (ii) Explain structure and functions of lymph node
- (iii) Write note on conduction system of heart
- (iv) Explain cranial nerves of human body.
- (v) Write a note on tissues.
- (vi) Classify the bones of human skeleton and give the functions of bones.
- (vii) Discuss in detail joints.
- (viii) Differentiate between the sympathetic and parasympathetic system
- (ix) Write a note on physiology of muscle contraction.

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