

Winter-2022

Seat Number 

5	0	6	0	6	2
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PANKH-03

BP-101-T

Human Anatomy and Physiology-I  
(711101)

Total Pages : 5]

Time : 3 Hours

Max Marks : 75

- Note :** (1) Do not write anything on question paper except Seat No.  
(2) Diagram should be drawn with the black ink pen or black HB pencil.  
(3) Students should note, no supplement will be provided.  
(4) All questions are compulsory.  
(5) Draw neat labelled diagrams wherever necessary.

1. Solve the following *all* MCQs :

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- (i) The term "Powerhouse of cell" is used for :
- |                |                           |
|----------------|---------------------------|
| (a) Golgi body | (b) Mitochondria          |
| (c) Nucleus    | (d) Endoplasmic reticulum |
- (ii) The spherical structured organelle that contains the genetic material is :
- |               |                  |
|---------------|------------------|
| (a) Cell wall | (b) Ribosomes    |
| (c) Nucleus   | (d) Mitochondria |
- (iii) The tissue that lives and covers the body is :
- |                |                |
|----------------|----------------|
| (a) Connective | (b) Epithelial |
| (c) Nervous    | (d) Muscle     |

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- (iv) The outermost layer of the skin is called :
- |               |                |
|---------------|----------------|
| (a) Dermis    | (b) Hypodermis |
| (c) Epidermis | (d) Adipose    |
- (v) The last 4 vertebra fused to form :
- |             |             |
|-------------|-------------|
| (a) Sternum | (b) Coccyx  |
| (c) Sacrum  | (d) Cochlea |
- (vi) Cardiac muscle is found on :
- |           |             |
|-----------|-------------|
| (a) Nose  | (b) Eye     |
| (c) Heart | (d) Stomach |
- (vii) The largest lymph organ is called as :
- |               |                 |
|---------------|-----------------|
| (a) Spleen    | (b) Lymph node  |
| (c) Lymphduct | (d) Lymphocytes |
- (viii) Shoulder joint is also called as :
- |                           |                  |
|---------------------------|------------------|
| (a) Pivot joint           | (b) Hinge joint  |
| (c) Ball and Socket joint | (d) Saddle joint |
- (ix) Which blood group is considered as universal recipient ?
- |       |        |
|-------|--------|
| (a) O | (b) AB |
| (c) A | (d) B  |



(x) The first cranial nerve is :

- |               |                |
|---------------|----------------|
| (a) Olfactory | (b) Oculomotor |
| (c) Optic     | (d) Vagus      |

(xi) The term "Suicidal bags" is used for :

- |                  |                  |
|------------------|------------------|
| (a) Peroxisomes  | (b) Lysosomes    |
| (c) Mitochondria | (d) Microtubules |

(xii) The longest and strongest bone in the body is :

- |             |            |
|-------------|------------|
| (a) Humerus | (b) Femur  |
| (c) Tibia   | (d) Fibula |

(xiii) Total number of cervical, thoracic and lumbar vertebrae comes to :

- |        |        |
|--------|--------|
| (a) 24 | (b) 33 |
| (c) 37 | (d) 27 |

(xiv) Sebaceous glands secrete an oily and waxy matter called as :

- |           |           |
|-----------|-----------|
| (a) Sweat | (b) Mucus |
| (c) Sebum | (d) Oil   |

(xv) Brain and spinal cord is covered by :

- |            |               |
|------------|---------------|
| (a) Muscle | (b) Meninges  |
| (c) Bone   | (d) Cartilage |

(xvi) How many nucleus present in RBC ?

- |       |       |
|-------|-------|
| (a) 1 | (b) 3 |
| (c) 2 | (d) 0 |

(xvii) The "Seat of Intelligence" is :

- |                       |                  |
|-----------------------|------------------|
| (a) Cerebellum        | (b) Cerebrum     |
| (c) Medulla oblongata | (d) Diencephalon |

(xviii) Haemoglobin is a :

- |                    |             |
|--------------------|-------------|
| (a) Polysaccharide | (b) Protein |
| (c) Enzyme         | (d) Hormone |

(xix) The life span of RBC is :

- |              |              |
|--------------|--------------|
| (a) 100 days | (b) 110 days |
| (c) 120 days | (d) 130 days |

(xx) Mitral valve is the other name of :

- |                      |                    |
|----------------------|--------------------|
| (a) Tricuspid valve  | (b) Bicuspid valve |
| (c) Semilunar valves | (d) Valves         |

2. Solve any two :

20

- (i) Explain the process of cell division.
- (ii) Describe structure and function of skin in detail.
- (iii) Define blood pressure. Explain regulation of blood pressure.

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3. Write short notes on any *seven* :

- (i) Mechanism of blood coagulation.
- (ii) Physiology of Vision.
- (iii) White blood cells.
- (iv) Types of joints
- (v) Parasympathetic nervous system
- (vi) Cardiac cycle
- (vii) Structure and function of cell
- (viii) Homeostasis
- (ix) Classification of tissue.