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**BRAINWARE UNIVERSITY**

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Barasat, Kolkata -700125

Term End Examination 2025-2026**Programme – B.Pharm-2022/B.Pharm-2023/B.Pharm-2024/B.Pharm-2025****Course Name – Human Anatomy and Physiology I****Course Code - BP101T****(Semester I)****Full Marks : 75****Time : 3:0 Hours**

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 20=20

1. Choose the correct alternative from the following :

- (i) Choose the correct answer: The sweat and oil glands are found in
- | | |
|------------------------------------|-----------------------------|
| a) Outer layer of epidermis | b) Inner layer of epidermis |
| c) Both the epidermis & the dermis | d) Dermis |
- (ii) Select the correct location of cardiac muscle.
- | | |
|---------------|----------------|
| a) Epicardium | b) Endocardium |
| c) Myocardium | d) Abdomen |
- (iii) Select the part of heart which is functioning as pacemaker of heart
- | | |
|-------------------|------------|
| a) AV node | b) SA node |
| c) Pulmonary vein | d) Artery |
- (iv) Select the normal number of cardiac cycle per minute :
- | | |
|----------|----------|
| a) 70-80 | b) 50-60 |
| c) 55-75 | d) 60-80 |
- (v) Select the correct option for Buerger's Disease
- | | |
|---|--|
| a) Inflammation of small arteries | b) Inflammation with thrombosis of small veins |
| c) Inflammation with thrombosis of small arteries | d) Thrombosis of small veins |
- (vi) Identify the correct option for the following: Angiomas are_____.
- | | |
|--|------------------------------------|
| a) benign tumor in blood or lymph vessel | b) Malignant tumor in blood vessel |
| c) Rupture of blood vessel | d) Plaque in veins |
- (vii) Identify the correct option from the following: Ischaemic heart disease cause of_____.
- | | |
|-----------------------|-----------------|
| a) Hemorrhage | b) Atheroma |
| c) Low blood pressure | d) All of these |
- (viii) Choose the name of granulocyte from the following.

- a) Neutrophil
c) Monocyte
- b) Basophil
d) Both a and b
- (ix) Name the vitamins are essential for formation of erythrocyte.
a) Iron
b) Folic acid
c) Vitamin B12
d) All of these
- (x) Identify the deformative blood clotting factor which is responsible for Haemophilia A.
a) Factor II
b) Factor VII
c) Factor X
d) Factor VIII
- (xi) Select the correct answer for following: Cell membrane has _____.
a) Channel protein
b) Carrier protein
c) Glycoproteins
d) All of these
- (xii) Select the correct option for the following: Involuntary movement is characteristic of
a) Cardiac muscle
b) Smooth muscle
c) Skeletal muscle
d) Both a and b
- (xiii) Select the correct option from the following: Neurilemma is covering of
a) Skeletal muscle
b) Neuron
c) Smooth muscle
d) Synaptic cleft
- (xiv) Identify the correct diameter of intermediate filament.
a) ~ 5 nm
b) ~ 2 nm
c) ~ 12 nm
d) ~ 10 nm
- (xv) Locate microfilaments.
a) Muscle
b) Epithelium
c) Nerve
d) All of these
- (xvi) Select the correct option from the following: Kinetochore present in _____.
a) Epithelium
b) DNA
c) Centromere
d) Chromatid
- (xvii) Select the correct answer from the following: RBC contain _____.
a) Nucleus
b) Haemoglobin
c) DNA
d) All of these
- (xviii) Choose the correct answer: coccyx bone is divided into _____.
a) 4
b) 2
c) 3
d) 1
- (xix) Choose the correct answer: sacrum bone is divided into _____.
a) 5
b) 4
c) 3
d) 2
- (xx) Choose the correct answer: thoracic bones divided into _____.
a) 12
b) 7
c) 5
d) 4

Group-B

(Short Answer Type Questions)

5 x 7=35

2. Describe in detail about the endocytosis process. (5)

3. Describe plasma and its components. (5)
4. Describe in detail about mitochondria. (5)

5. Describe the bones present in the vertebral column. (5)

6. Explain the functions of lysosome.

7. Explain any two types of anemia.

(5)

(5)

OR

Write a short note on ABO blood group in human body.

(5)

8. Explain in detail about neuron with myelinated and non-myelinated parts in detail.

(5)

OR

Explain the functioning of the cardiovascular system with a proper diagram of heart.

(5)

Group-C

(Long Answer Type Questions)

10 x 2=20

9. Explain the process of cell cycle with a labelled diagram.

10. Explain in detail the pulse rate.

(10)

(10)

OR

Explain in detail about joints.

(10)
