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Pharmaceutical Technology
Brainware University
Barasat, Kolkata-700125

BRAINWARE UNIVERSITY

Term End Examination 2024-2025

Programme – B.Pharm-2019/B.Pharm-2020/B.Pharm-2022/B.Pharm-2023/B.Pharm-2024

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) Name the outer most boundary of cell.
 - a) Plasma membrane
 - b) Cytoplasm
 - c) Nuclear membrane
 - d) None of the each
- (ii) Which one of the following term is not a part of the nucleus?
 - a) Ribosome
 - b) Chromosome
 - c) Nucleolus
 - d) Gene
- (iii) What is the name of the tissues which helps in protection and support of the body?
 - a) Epithelial tissue
 - b) Nervous tissue
 - c) Muscular tissue
 - d) Connective tissue
- (iv) Locate the lymph nodes in the human body in the tissues of the _____.
 - a) Stomach & Brain
 - b) Groin & Neck
 - c) Ventricle & Atrium
 - d) Thyroid gland & Adrenal Gland
- (v) Select the correct answer from the following: Formation of lipid plaque inside the wall of arteries is known as _____.
 - a) Thrombosis
 - b) Arteriosclerosis
 - c) Atherosclerosis
 - d) Heart attack
- (vi) Name the only vein in the body that transports oxygen-rich blood.
 - a) Coronary vein
 - b) Hepatic portal vein
 - c) Pulmonary vein
 - d) Aortic vein
- (vii) Locate the mitral valve in human heart.
 - a) Right atrium and left ventricle
 - b) Right and left ventricle
 - c) Left ventricle and aorta
 - d) Left atrium and left ventricle
- (viii) Choose the correct answer from the following: Movement of molecules to low concentration area from higher concentration area is called _____.
 - a) Diffusion
 - b) Osmosis
 - c) Active transport
 - d) Facilitated diffusion

- a) Diffusion
c) Macro plasm
- b) Micro plasmas
d) Mycoplasma
- (ix) Select the correct answer from the following: Dissolved substances like sugar, mineral salts and amino acids are the contents of _____.
- a) Cell gap
c) Cytoplasm
- b) Protoplasm
d) Semi solid gel
- (x) Select the correct cell which take part in phagocytosis.
- a) RBC
c) Macrophage
- b) Platelet
d) Nucleus
- (xi) Choose correct answer: The longest bone in the human body:
- a) Stapes
c) Ulna
- b) Humerus
d) Femur
- (xii) Choose the purpose of the rib cage :
- a) Protect the stomach
c) Protect the heart and lungs
- b) Protect the spinal cord
d) provide an object to which the lungs can attach
- (xiii) Choose the correct answer: Which bone protects the brain?
- a) Calcium
c) The cerebrum
- b) The cranium
d) The cerebellum
- (xiv) Choose the correct answer: Renin is secreted from the juxtaglomerular cells in _____.
- a) Kidney
c) Lungs
- b) Heart
d) Brain
- (xv) Identify the correct answer: Healthy human body temperature is _____.
- a) 102 degree F
c) 98.6 degree F
- b) 90 degree F
d) None of these
- (xvi) Select the correct location of cardiac muscle.
- a) Epicardium
c) Myocardium
- b) Endocardium
d) Abdomen
- (xvii) Identify the correct option for the following: Angiomas are _____.
- a) benign tumor in blood or lymph vessel
c) Rupture of blood vessel
- b) Malignant tumor in blood vessel
d) Plaque in veins
- (xviii) Select the correct answer for following: Cell membrane has _____.
- a) Channel protein
c) Glycoproteins
- b) Carrier protein
d) All of these
- (xix) Select the correct option from the following: Neurilemma is covering of
- a) Skeletal muscle
c) Smooth muscle
- b) Neuron
d) Synaptic cleft
- (xx) Select the correct answer from the following: RBC contain _____.
- a) Nucleus
c) DNA
- b) Haemoglobin
d) All of these

Group-B

(Short Answer Type Questions)

5 x 7=35

2. Describe the function of ribosome in brief. (5)
3. Describe in detail about the endocytosis process. (5)
4. Describe plasma and its components. (5)
5. Describe in detail about mitochondria. (5)

6. Describe in detail about gap junction. (5)

7. Explain the blood coagulation with names of the clotting factors. (5)

OR

Explain in detail about blood vessels. (5)

8. Explain in brief composition of blood with functions. (5)

OR

Summarize the structure and function of GABAA receptor. (5)

Group-C

(Long Answer Type Questions)

10 x 2=20

9. Explain the lymphatic system's role in maintaining tissue fluid balance and preventing edema. (10)

10. Distinguish between mitosis and meiosis in animal cells. (10)

OR

Explain the structure and function of microfilaments and microtubules. (10)

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