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Language :

Subject Code No.

2407000301030701

Question
Paper

~~SOLUTION~~ / ~~MARKING~~ SCHEME

No. of Sheets

Examination	First BHMS (Surv)	Semester :
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Name of Subject

Exact title of the paper
(Indicate OLD If applicable)

Paper No. (If any)

Letters of the Seal Used

Supplementary Examination

1st Year BHMS CBDC
Human Physiology & Biochemistry Paper – 1
(Hom UG – PB)

Total – 100 Marks

QUESTION 1 :- Multiple Choice Questions (ALL ARE COMPULSORY)

10 MARKS

1. Which organelle contains digestive enzymes?
 - A. Nucleus
 - B. Lysosome
 - C. Golgi apparatus
 - D. Ribosome
2. The fluid inside the nucleus is called:
 - A. Cytoplasm
 - B. Protoplasm
 - C. Nucleoplasm
 - D. Matrix
3. Diffusion occurs from:
 - A. Low concentration to high concentration
 - B. High concentration to low concentration
 - C. Equal concentration to high concentration
 - D. None of the above
4. In a hypertonic solution, a red blood cell will:
 - A. Shrink
 - B. Remain unchanged
 - C. Swell and may burst
 - D. Become rigid
5. Which blood group is known as the universal donor?
 - A. A positive
 - B. B positive
 - C. AB positive
 - D. O negative

6. Which valve prevents backflow of blood from the left ventricle to the left atrium?

- A. Tricuspid valve
- B. Pulmonary valve
- C. Mitral (Bicuspid) valve
- D. Aortic valve

7. The respiratory center is located in the:

- A. Cerebrum
- B. Cerebellum
- C. Medulla oblongata
- D. Thalamus

8. Juxtamedullary nephrons have

- A. Short loop of Henle
- B. No loop of Henle
- C. Long loop of Henle
- D. Double glomerulus

9. Which of the following is NOT a function of the skin?

- A. Protection
- B. Temperature regulation
- C. Gas exchange
- D. Sensation

10. The junction between a nerve and a muscle fiber is called:

- A. Synapse
- B. Neuromuscular junction
- C. Node of Ranvier
- D. Dendrite

QUESTION – 2 : SHORT ANSWER QUESTIONS (ALL COMPULSORY)

40 MARKS

1. Mitochondria
2. Osmosis
3. Synthesis of Hemoglobin
4. Heart Sounds
5. Lung Surfactant
6. Discuss the functions of kidney.
7. Describe structure and functions of skin
8. Neuromuscular junction

QUESTION – 3 FULL QUESTIONS (ALL COMPULSORY)

50 MARKS

1. Define Blood. Describe composition and functions of blood
2. Define Coagulation. Explain the process of coagulation in detail.
3. Define Cardiac Cycle. Discuss events of cardiac cycle in detail with appropriate diagram
4. Describe the oxygen transport mechanism in detail.
5. What is GFR discuss in detail factors affecting GFR