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Total No. of printed pages = 02

Monsoon, 2023
BMLT Semester Examinations
PHYSIOLOGY-I
Course Code: BML23102T

Full Marks – 60

Time – 2½ hours

The figure in the margin indicates full marks for the questions.

1. Answer the following: (MCQ/ Fill in the blanks): (10x1=10)
- i. Ribosome are sites for
 - (a) Protein synthesis
 - (b) Photosynthesis
 - (c) Fat synthesis
 - (d) Respiration
 - ii. Chromosomes are located in
 - (a) Nucleus
 - (b) Mitochondria
 - (c) Plastids
 - (d) Lysosome
 - iii. Power house of the cell organelle is
 - (a) Mitochondria
 - (b) Lysosome
 - (c) Endoplasmic reticulum
 - (d) Nucleus
 - iv. Which of the following chambers of the heart receives oxygenated blood?
 - (a) Left atrium
 - (b) Left ventricle
 - (c) Right atrium
 - (d) Right ventricle
 - v. What is the normal blood pressure range value for an adult healthy individual?
 - (a) 100/60 to 110/70 mmHg
 - (b) 110/70 to 120/80 mmHg
 - (c) 130/80 to 140/90 mmHg
 - (d) 140/90 to 145/95 mmHg
 - vi. Blood is a type of tissue?
 - (a) Epithelial tissue
 - (b) Connective tissue
 - (c) Both a and b
 - (d) None of the above
 - vii. Which one is responsible for the red color of human blood?
 - (a) Plasma
 - (b) Hemoglobin
 - (c) WBC
 - (d) Haemocyanin
 - viii. Structural and functional unit of nervous system is
 - (a) Neuron
 - (b) Nephron
 - (c) Spinal cord
 - (d) Nerve
 - ix. The largest artery present in the human body is _____.
 - x. A natural pacemaker present in the heart is _____.

2. Answer the Following in short (5 out of 6) (5x2=10)
- (a) Explain the feedback mechanism with examples.
 - (b) Write a short note on ECG
 - (c) Define blood and mention its composition.
 - (d) Write a short note on intercellular communication.
 - (e) Briefly explain blood groups.
 - (f) Explain Synapse
3. Answer in the following (4 out of 6) (4x5=20)
- (a) Briefly explain the formation of blood components
 - (b) Explain the systemic circulation of the heart.
 - (c) Define lymph? Explain the composition and function of lymph
 - (d) Briefly explain cranial nerves
 - (e) Explain cardiac cycle
 - (f) What are the Differences between innate immunity and passive immunity
4. Answer the following (2 out of 3) (2x10 =20)
- (a) Define cell. explain the structure and function of the nucleus, mitochondria, endoplasmic reticulum, and Lysosome
 - (b) What are the difference between sympathetic and parasympathetic nervous system
 - (c) Explain the organization of the cardiovascular system.