

BMLT
B.Sc. Second Semester End Examination-2023
(Regular & Supplementary Paper)
PAPER-VII
[Human Physiology]

Full Marks: 40

Time: 02 Hrs

The figures in the right hand margin indicate marks
Candidates are required to give their answers in their own words as
far as practicable
Illustrate the answers wherever necessary

1. **Answer any FIVE questions of the following:** **5x2= 10**
- a. What is active and passive transport?
 - b. Define isometric contraction and relaxation period?
 - c. What is 'Brown-Sequard' syndrome?
 - d. What is graafian follicle and which hormones are secreted from it?
 - e. What do you mean by Cardiac index?
 - f. Which enzymes play an important role at the time of protein digestion and mention their location?
 - g. What do you mean by hypoxia?
 - h. What is gametogenesis?

(2)

2. Answer any FOUR questions of the following: 4x5 = 20

- a. What is the significance of O_2 dissociation curve and which factors effect this curve?
- b. Describe the electron microscopic structure of the cell membrane with suitable diagram.
- c. Write the non-excretory function of kidney with examples
- d. What are the mechanism of Thermogenesis and Thrombolysis in body temperature regulation.
- e. Explain briefly the blood coagulation process with proper flow chart.
- f. Explain the peristaltic and segmented movements of small intestine.

3. Answer any ONE question of the following: 1x10 = 10

- a. What is "Blood Brain Barrier"? Why is a trained athletes heart rate lower than that of a normal person. Explain the regulation of coronary circulation. 2+2+6
 - b. Write the properties of skeletal muscles. Discuss the role of bile salts on fat digestion and absorption. 4+6
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