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RNLKWC/B.Sc./CBCS/BMLT/IIS/VII/22

2022

BMLT

(B.Sc. Second Semester End Examination-2022)

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 from the following:

5x2 = 10

- a. What is juxta glomerular apparatus?
- b. Mention the role of tropomyosin in muscle contraction.
- c. What is reflex action?
- d. Calculate the stroke volume when cardiac output is 5litres/min and heart rate is 72 beats / min.
- e. What do you mean by asphyxia?
- f. What is ovulation?
- g. Write the name of any two telereceptor.
- h. Stae the location of goblet cells and macula densa cells.

2. Answer any four questions from the following: 4x5 = 20

a. Discuss the anatomical organization of cerebral circulation.

- b. Discuss the counter current mechanism in hypertonic urine formation in man.
- c. Describe the electron microscopic structure of the cell membrane with suitable diagram.
- d. Write the origin, course and termination of cortico-spinal nerve tract with simple diagram.
- e. Write down the role of calcium ion in contraction of skeletal muscles.
- f. Discuss the role of hypothalamus in regulation of body temperature.
- g. Describe the role of different factors on erythropoiesis.

3. Answer any one questions of the following: $1 \times 10 = 10$

- a. Name the hormone secreted from testis. Write the difference between oestrus cycle and menstrual cycle. Describe the various phases of menstrual cycle.
- b. What do you mean by thermo kinetics in body temperature?

 Write the regulation of body temperature in human. 2+8
