

2025

M.Sc. 1st Semester Examination

**MEDICAL LABORATORY
TECHNOLOGY**

Paper : MLTE404A0

[Human Anatomy and Physiology]

Full Marks : 25

Time : One Hour

The figures in the margin indicate full marks.

*Candidates are required to give their answers
in their own words as far as practicable.*

Group - A

Answer any *two* questions : $2 \times 2 = 4$

1. What do you mean by "abdominopelvic cavity"?
2. Mention the function of thecal layers of ovum.
3. State the functions of integral protein.
4. "Foetus can survive in mother's womb in spite of low p50 value of haemoglobin." — Justify.

P.T.O.

(2)

Group - B

Answer any *two* questions : $4 \times 2 = 8$

5. What do you mean by fenestrated capillary? Write its function. $2+2$
6. What is GFR? State the regulating factors of GFR. $2+2$
7. Discuss the role of hypothalamico-hypophyseal testicular axis endocrinal regulation of spermatogenesis. 4
8. Discuss the role of hypothalamus on body temperature regulation.

Group - C

Answer any *one* question : $8 \times 1 = 8$

9. Discuss the secretion and activation of protein digestive enzymes. Describe the gross anatomy of respiratory system. $3+5$
10. Describe the blood pressure regulating mechanisms of human body. Mention the name of the spinal nerves. $5+3$

Internal Assessment : 5 marks
