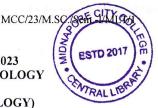
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PG CBCS

M.Sc. Semester-I Examination, 2023 MEDICAL LABORATORY TECHNOLOGY PAPER: MLT 101

(HUMAN ANATOMY & PHYSIOLOGY)

Full Marks: 40



Time: 2 Hours

The figures in the right-hand margin indicate full marks.

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

GROUP-A

Answer any FOUR questions

 $2 \times 4 = 8$

- 1. Define 'gastroenterology' and 'proctology'.
- 2. State the role of skeletal system in "Mineral homeostasis".
- 3. Mention the major organs found in pelvic cavity of human.
- 4. What is appendicular skeleton?
- 5. Write the physiology of 'Rigor mortis'.
- 6. State the role of Vasa Recta.

GROUP-B

Answer any FOUR questions:

 $4 \times 4 = 16$

- 7. Write a short note on electrical conduction system in human heart.
- 8. Describe the different phases of female reproductive cycle.
- 9. Discuss the pathway of signal propagation during a reflex action.
- 10. Write a note on Hypoxia.
- 11. Briefly discuss the functions of hypothalamus in body temperature regulation.
- 12. State the functional classification of joints with example.

GROUP-C

Answer any TWO questions:

 $8 \times 2 = 16$

- 13. What is dead space air in lung? Describe the chloride shift mechanism of CO₂ transport. 2+6
- 14. What is GFR and state its normal value. Briefly describe the micturition reflex.

3+5

- 15. If the heart rate is 72 beats/min and stroke volume is 80 ml of a subject, calculate the minute volume. Define hypertension. If the SBP will increase to 150 mm Hg, how will baroreceptors reflex work?

 2+2+4
- 16. Describe the anatomy of spiral cord with salient features notes lumbar section.

5+3
