

KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES

WARANGAL, TELANGANA STATE – 506 002

B.Sc. (MLT) FIRST YEAR DEGREE EXAMINATIONS: FEBRUARY, 2026

PHYSIOLOGY

Time: 3 Hours.

Max Marks: 80

Note: Give Diagrammatic representation wherever necessary.

Write an essay on any TWO of the following:

2 X 10 = 20

1. Mention the various types of blood group systems. Briefly explain about ABO, and Rh systems. Write about its determination and significance.(2+4+4)
2. Name the anterior pituitary hormones. Explain the function of growth hormones. Add a note on gigantism. (3+5+2)
3. Describe the formation, circulation, composition and functions of cerebrospinal fluid (CSF). Add a note on hydrocephalus. (2+2+2+2+2)

Write a short note on any SIX of the following:

6 X 5 = 30

4. Functions of liver.
5. Composition and functions of pulmonary surfactant.
6. Draw labeled diagram of Lead II electrocardiogram (ECG) and write its significance.
7. Menstrual cycle.
8. Functions of hypothalamus.
9. Deafness.
10. Micturition reflex.
11. Draw a labeled diagram of sarcomere.

Write briefly on the following:

10 X 3 = 30

12. Types and functions of white blood cells.
13. Define arterial pulse and write its normal values.
14. Define vital capacity. Write its normal value.
15. Defecation.
16. Diabetes mellitus.
17. Draw a labeled diagram of sperm.
18. Functions of medulla oblongata.
19. Functions of anti-diuretic hormone (ADH).
20. Name the receptors for vision and hearing.
21. Immunity.
