Reg. No.....

Name:

THIRD SEMESTER UG DEGREE EXAMINATION, NOVEMBER 2024

(Regular/Improvement/Supplementary)

BSM

GBSM3A02T: FUNDAMENTALS OF SPORTS SCIENCES

Time: 2 ¹/₂ Hours

Maximum Marks: 80

SECTION A: Answer the following questions. Each carries *two* marks. (Ceiling 25 marks)

- 1. Define sports science.
- 2. What are carbohydrates and proteins?
- 3. Explain VO₂ Max.
- 4. What is team cohesion?
- 5. State the concept of 'sport as a science'.
- 6. Comment on force and torque in biomechanics.
- 7. Enlist the scope of test & measurements in sports.
- 8. Mention the importance of injury rehabilitation.
- 9. What are the major components of the skeletal system?
- 10. Explain the concept of athletic safety.
- 11. What is doping?
- 12. Comment on wearable technologies.
- 13. Define exercise physiology.
- 14. List down the fundamental movements in sports biomechanics.
- 15. Draw a flow chart of respiratory pathway.

SECTION B: Answer the following questions. Each carries *five* marks. (Ceiling 35 marks)

- 16. Explain the meaning and definition of kinesiology.
- 17. Give an account on motivation and goal setting in sports.
- 18. Discuss the physiological factors affecting sports performances.
- 19. Explain safety measures during training and competitions.
- 20. Elaborate on the principle of movement in corrective exercises.
- 21. Write the scope of physiotherapy in sports.
- 22. Describe on ergogenic aids in sports.
- 23. Give an account on the importance of sports nutrition.

SECTION C: Answer any two questions. Each carries ten marks.

- 24. Write an essay on the functions and classification of Nervous system.
- 25. Discuss the needs, importance and scope of sports medicine.
- 26. Explain the historical development and emergence of sports science.
- 27. Explain aims, goals and objectives of adapted physical education.