#### 20UNDCT5010

# SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN (AUTONOMOUS)

(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC) Chromepet, Chennai - 600~044.

B.Sc.CND - END SEMESTER EXAMINATIONS - NOV'2024 SEMESTER - V

## 20UNDCT5010 - Sports Nutrition

Total Duration: 2 Hrs.30 Mins. Total Marks: 60

### Section B

Answer any **SIX** questions  $(6 \times 5 = 30 \text{ Marks})$ 

- 1. Define physical fitness and discuss its components.
- 2. Interpret the role of carbohydrates in exercise and explain the concept of carbohydrate loading.
- 3. Explain the importance of hydration and the risks of dehydration in athletic performance.
- 4. Describe the concept of ideal body weight and its significance in sports performance.
- 5. Describe the energy pathways involved in muscle force generation during exercise.
- 6. Predict the role of fat before, during, and after exercise.
- 7. Explain the role of antioxidants in sports nutrition.
- 8. Evaluate the impact of eating disorders on athletic performance and methods for their prevention.

#### Section C

Answer any **THREE** questions  $(3 \times 10 = 30 \text{ Marks})$ 

- 9. Relate the relationship between physical fitness and exercise physiology, focusing on the role of the pulmonary and neural systems.
- 10. Classify the metabolic adaptations of skeletal muscles to regular exercise and the factors that influence fuel choice during physical activity.
- 11. Justify the importance of proteins in exercise, outlining protein needs before, during, and after athletic activities.
- 12. Predict the importance of electrolyte balance and fluid intake guidelines for athletes, particularly in thermoregulation and performance.
- 13. Appraise the types and effects of anabolic steroids and the role of the World Anti-Doping Agency (WADA) in regulating their use.