

Human Physiology(P.G.)

[CBCS]

M.Sc. Second Semester End Examination-2024

(Regular & Supplementary Paper)

PAPER-PHY-201

Full Marks: 40

Time: 02 Hrs

The figures in the right hand margin indicate marks.

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

Illustrate the answers wherever necessary.

(Use separate answer script for each unit)

Unit – 13

[Marks – 20]

[Community health: Exercise physiology and Mass Fitness]

1. Answer any two questions of the following: 2x2=4

- a. What is significance of O₂ debt?
- b. Mention the anti doping rule violations mentioned in WADA code.
- c. Write down the importance of Shift-work in human productivity.
- d. What is hypothermia? Mention its symptoms. 1+1

2. Answer any two questions of the following: 2x4= 8

- a. What is meant by threshold limit value(TLV) and maximal allowable concentration(MAC) with respect to chemical hazards in occupation? 2+2

(2)

- b. What is cardio-respiratory endurance? Write down the health benefits associated with exercise. 1+3
- c. What is the relationship between OSHA and NIOSH? Mention the names of any two respiratory protective equipment. 2+2
- d. What are meant by static and dynamic anthropometry? Write two applications of anthropometry in Ergonomics. 2+2

3. Answer any one question of the following: 1x8=8

- a. What is pulmonary ventilation? Describe how VO_2 max changes during exercise. State the factors responsible for injury during sports. 1+4+3
- b. What is heat-shock response? Why heat shock proteins do not denature? Mention the role of RpoH sigma factor in the regulation of the heat shock response. 1+3+4

Unit – 14

{Marks – 20}

**[Community health: Health Disease Nutrition and
life style Management]**

1. Answer any two questions of the following: 2x2=4

- a. What is Epidemiological triad?
- b. Write two preventive measures for iodine deficiency.
- c. What is meant by endemic form of disease? Explain with example.
- d. What is mean by food irradiation?

(3)

2. Answer any two questions of the following: 2x4= 8

- a. How can food poisoning be controlled based on the principles of Hazard Analysis of Critical Control Points (HACCP)?
- b. What health care management should be taken up for H₁N₁?
- c. Explain the web of causation for myocardial infarction.
- d. What is the significance of pasteurization method? Mention any two names of artificial sweeteners and their physiological disadvantages. 1+3

3. Answer any one question of the following: 1x8=8

- a. Define the term 'failure to thrive'. Describe the nutritional requirements during infancy. 2+6
- b. i) Discuss the different dimensions of health as per WHO.
ii) Write any two measures recommended by WHO to control diarrhea. 6+2
