Total Pages-5 PG/IIS/PHY/202.1 & 202.2/23 (Old)

M.Sc. 2nd Semester Examination, 2023 **HUMAN PHYSIOLOGY**

PAPER - PHY-202.1 & 202.2(Old)

Full Marks: 40

Time: 2 hours

The figures in the right hand margin indicate marks

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

PHY-202.1

[Marks : 20]

(Community Health: Exercise Physiology and Mass Fitness)

GROUP - A

Answer any two questions from the following: 2×2

What do you mean by heat syncope?

2.	What is high altitude pulmonary edema?	

What do you understand by "eustress" and "distress"?

What is range of motion (ROM)?

GROUP - B

Answer any two questions from the following:

 4×2 State the principles of anthropometry for ergonomic design. 4

- Describe the exercise prescription for the patient with Parkinson's disease.
- 7. Discuss different common mechanical injuries in workplace. Mention some safeguards against mechanical injuries. 3 + 1
- 8. State about the pathophysiology of Coal worker's Pneumoconiosis (CWP). 4

6.

2

GROUP - C

Answer any one question from the following: 8×1

- 9. (a) Describe the anaerobic energy release mechanism during muscular activity.
 - (b) Mention different benefits of physical fitness activity. 5+3
- 10. (a) What is body composition?
 - (b) How do you assess body composition of a human under water weighing method?
 - (c) What is fat free mass? 2+5+1

PHY-202.2

[Marks : 20]

GROUP -- A

Answer any two questions from the following:

1. What is sarcopenia? 2

2. What are orexigenic peptides?

- 3. Mention two phyto-nutrients that can reduce aging related macular degeneration.
- 4. Mention the objectives of Applied Nutrition Programme. 2

GROUP - B

- Answer any two questions from the following: 4×2
- 5. Discuss the role of leptin in the regulation of energy balance. Mention the role of orlistat in weight management. 2+2
- 6. Write the symptoms of iron deficiency anemia. Mention the stages of iron deficiency anemia. 2+2
- 7. Mention the causes of anemia in elderly. What are the causes and symptoms of iron overload?
- 8. Write a short note on Vitamin A prophylaxis programme. What are the objectives of the programme. 2+2

GROUP - C

Answer any one question from the following:

 8×1

- 9. Discuss the mechanism of action of adiponectin.
 Discuss the merits and demerits of Atkins diet in weight management. What is chronic energy deficiency?
 3+3+2
- 10. What do you understand by physiological aging?
 Mention the causes of obesity among elderly people. What are the primary causes of malnutrition in the elderly population?
 2+3+3