

2022

HUMAN PHYSIOLOGY

[P.G.]

(M.Sc. Second Semester End Examination-2022)

PAPER- PHY201 (Theory)

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

UNIT – 13 Marks 20

Community Health : Exercise Physiology and Mass Fitness.

Group A

Answer any two questions from the following: **2x2= 4**

1. What do you mean by Physical fitness index? 2
2. Write down the goals of ergonomics. 2
3. Differentiate between static and dynamic anthropometry. 2
4. What do you mean by Man-Machine interface? 2

Group B

Answer any two questions from the following: **2x4 = 8**

5. Write down the hypothalamic control mechanism for human body temperature.

(2)

6. Define personal protective equipment. Name any two personal protective equipment mentioning their usefulness.
7. Define VO₂ Max and VE Max. How can you calculate VO₂ Max of a person using Fick's equation?
8. Write down the different principles of application of anthropometric data. 4

Group C

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

9. Define occupational hazards. Briefly discuss about the different types of health hazards in work place. 2+6
10. Define blood doping. Mention the important types of blood doping. Describe the risk associated with blood doping. 2+3+3

UNIT – 14 Marks 20

Community health, Disease, Nutrition and lifestyle Management

Group A

Answer any two questions from the following: 2x2= 4

1. Write down the composition of mature human milk 2
2. Write a short note on nondeletion β thalassemia. 2
3. Define prebiotics and probiotics. 2
4. Write a short note on artificial sweeteners. 2

(3)

Group B

Answer any two questions from the following: 2x4 = 8

5. Name two causative agents of any two food borne illness. Mention two preventive measures of each. 2+2
6. Explain the term "Failure to Thrive" and write down the factors involved in it.
7. "Colostrum is the first immunization to the infant"- justify the statement. Define human milk fortifiers.
8. How do nutrients modulate gene expression?

Group C

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

9. What are the clinical management and control guidelines for H1N1?
10. Define non communicable disease. What are the genetic modifiers of β thalassemia
