

2013

M.Sc.

2nd Semester Examination

HUMAN PHYSIOLOGY

PAPER—PHY-202

Full Marks : 40

Time : 2 Hours

The figures in the right-hand margin indicate full marks.

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

Illustrate the answers wherever necessary.

Write the answers to the questions of each Unit in separate books.

UNIT—15

Answer any *two* questions of the following.

1. (a) What do you mean by coronary heart disease?
- (b) Discuss the importance of stress testing for evaluating coronary heart disease.

(Turn Over)

- (c) Point out the stress test protocol for treadmill test.
3+3+4
2. (a) Describe the acclimatization of cardiovascular and pulmonary functions at high altitude.
(b) Describe the training process for participating sports events holding at high altitude.
(c) State the importance of O₂ supplementation for performance at high altitude. 4+4+2
3. (a) How genetic factor is related to obesity?
(b) Explain the principles of exercise method in relation to weight control.
(c) 'Active life style is beneficial for weight control' — Explain. 3+4+3
4. (a) What are the basic prescription of exercise frequency? Classify fitness and illustrate the general guidelines for improving fitness.
(b) What is fartlek training? (3+2+3+)+2
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UNIT—16

Answer any *two* questions of the following.

1. (a) Explain the 'five-level model' of body composition.
(b) Describe the bioelectric impedance method for determining body composition of human body mentioning its merits and demerits.
(c) What is lean body mass? 3+5+2
 2. (a) What are the sources of toxic substances in work place?
(b) Discuss the route of entry and health hazards of toxic substances in industrial workers. 3+7
 3. (a) Point out the hazards of face and eye in work places.
(b) Discuss different personal protective equipment used for face and eye protections. 4+6
 4. (a) What is occupational health? What are the types of occupational health?
(b) Write ergonomic interventions for health hazards in a workstation. (2+3)+5
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