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PG/IIS/PHY - 202/14

M.Sc. 2nd Semester Examination, 2014

HUMAN PHYSIOLOGY

PAPER – PHY - 202

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

Illustrate the answers wherever necessary

UNIT – XV

1. Name energy sources during exercise. State advantages and disadvantages of specific energy sources for sprinters. 1 + 4

Or

Mention the significant biochemical changes due to weight program in athletes. 5

(Turn Over)

(2)

2. Discuss the set point theory in relation to weight control by dietary restriction method. 5

Or

Describe the effects of aging on strength and cardiorespiratory fitness. 5

3. Mention some important clinical features of multiple sclerosis (MS) diseases. Describe the exercise prescription for the patients of MS. 2 + 3

Or

State the exercise induced ECG indicators of coronary heart disease (CHD) and exercise induced nonelectrocardiographic indicators of CHD. 3 + 2

4. (a) Describe the effects of hot environment on performance.
- (b) Mention some tips to prevent dehydration during work in a hot environment. 3 + 2

(3)

Or

State the limitations of sport performance at high altitude. State the advantages of altitude training for sea level performance. 3 + 2

UNIT – XVI

- 1. What is man-machine and environment system ? Give an examples. What do you mean by "fitting the task to man" ? 3 + 2**

Or

How humans act as information processor ? What is sensory processing ? 2 + 3

- 2. State the steps of densitometric method for determining body composition. 5**

Or

State the principles of anthropometry for ergonomic design. How is occupation related to anthropometric dimension ? 4 + 1

(4)

3. Discuss briefly personal protective devices used for the protection of head in work place. 5

Or

Mention the sources of fire hazards in work place. State the measures for reducing fire hazards in industries. 2 + 3

4. Discuss briefly the strategies for occupational stress management. 5

Or

Discuss the dermatological hazards and their interventions among agricultural workers. 5