

2008

M.Sc.

2nd Semester Examination

HUMAN PHYSIOLOGY

PAPER—VIII

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) State the merits and demerits of dieting for weight control.
- (b) Discuss the set point theory for explaining the problems of dieting for weight control. 3+7
2. (a) Point out the clinical features of different types of COPD.
- (b) Discuss the exercise prescription for pulmonary diseases. 4+6
3. (a) What are the common energy-yielding processes during exercise? State their significance in different types of exercise.

- (b) What are the beneficial effects of exercise for mentally handicapped persons. (3+4)+3
4. (a) How do you calculate gross and net energy used in a laboratory exercise ?
- (b) Discuss the distribution of muscle fiber types in various groups of athletes. 5+5

### UNIT—16

Answer any *two* questions.

5. (a) What do you understand by essential fat and storage fat ?
- (b) Describe the densitometric method for determining body composition of a human subject. 3+7
6. (a) What are common mechanical hazards in workplace ? State the protective measures against the mechanical hazards.
- (b) Write the names of important toxic substances found in industries and mention their health hazards. 6+4
7. Define accident. Discuss different causes of accidents. What is meant by accident monitoring ? How accidents can be controlled ? 1+4+2+3
8. (a) What is pneumoconiosis ?
- (b) Discuss the chronic effects of asbestos and cotton fibers on workers. 2+(4+2)