

**2009**

**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. Discuss how will you prescribe exercise for different neurological diseases. 10
2. (a) How is muscle strength related to the ageing?  
Discuss the strength train-ability of elderly persons.  
(b) Is physical conditioning related to longevity. (4+4)+2
3. (a) What is static exercise ?  
(b) Describe a method for the measurement of energy cost during treadmill exercise.  
(c) What do you mean by muscle power? 2+6+2

(Turn Over)

4. Discuss the biochemical and neurohormonal changes involved in weight programs. 5+5

### UNIT—16

Answer any two questions.

1. (a) State the sources of fire hazards in work places?  
(b) How fire hazards can be prevented? 6+4
  2. (a) State the general principles of using personal protective equipments.  
(b) Describe various respiratory protective equipments 3+7
  3. (a) Explain the Heinrich Theory for the occurrence of accident.  
(b) Mention the common unsafe acts, unsafe conditions and sub-causes of accidents. 3+7
  4. (a) State the 'Five-level model' of body composition. What is Behnke reference man and woman?  
(b) Describe bioelectric impedance method for determining body composition mentioning its merits and demerits. (3+2)+5
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