

2010

M.Sc.

2nd Semester Examination

HUMAN PHYSIOLOGY

PAPER—VII

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—13

Answer any *two* questions.

1. (a) Health can not be measured by a single indicator, it needs as many as ten" — discuss four such indicators that you think are the most important to assess the health of a community.
(b) Why it is important to know the health indicators? 8+2
2. (a) Mention the events that lead to metastatic transformation of a benign tumor.
(b) Why p53 has been considered as Tumor Suppress or gene?
(c) What is Translocation? 3+5+2

(Turn Over)

3. Write notes on : 5×2
- (a) Problem of Mental Health in India.
- (b) Hardy-Weinberg Principle and its assumptions.
4. (a) State different theories of aging.
- (b) What is epidemiological triad ? 5+5

UNIT—14

Answer any *two* questions.

1. (a) 13th November has been observed as 'World Diabetic Day'—what is the significance of observing the day ?
- (b) Write on the management of diabetes mellitus covering :
- (i) Types of treatment, and
- (ii) Patient's education. 2+8
2. (a) Name some phytochemicals that act as nutraceuticals.
- (b) Name some foods that contain these phytochemicals.
- (c) Discuss various role of these phytochemicals as disease preventing agents. 2+2+6
3. (a) Discuss the nutritional requirement of school children during growth and development.
- (b) How can you control the dental carries in child ?
- (c) Describe symptoms and treatment of *bulimia nervosa* and premenstrual syndrome. 3+2+5
4. (a) Describe the pathophysiology of coronary heart disease.
- (b) Discuss the nutritional management of CHD. 5+5