

2017

M.Sc.

2nd Semester Examination

HUMAN PHYSIOLOGY

PAPER—PHY-204

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.

(Unit—17)

Answer all questions from the following :

1. (a) Define disease and identify common sources and modes of disease transmission.
- (b) Identify the role of zoonoses in communicable disease in human.

(Turn Over)

- (c) What do you understand by virulence of a pathogen ?
2+2+1

Or

- (a) Briefly discuss the determinants and indicators for good health.
- (b) State the objectives of Millenium Development Goals, 2015. $2\frac{1}{2}+2\frac{1}{2}$

2. (a) Write down the full form of NASPE.
- (b) Classify learning domains. How does psychomotor domain influence on physical education ? $1+(1+3)$

Or

- (a) How does selection of food choices influence on prevention of diseases ?
- (b) Changes in lifestyle pattern and stress are the most common causative factor for coronary heart disease— Explain. $2+3$

3. (a) Define non-communicable disease with its characteristics and types.
- (b) Mention the traits of cancer cells.
- (c) Why cancer is a genetic disease? $2+1\frac{1}{2}+1\frac{1}{2}$

Or

- (a) What is type 2 diabetes mellitus?
- (b) Discuss the alterations in carbohydrate, protein and lipid metabolism in diabetes mellitus.
- (c) What is MODY? $1+3+1$
4. (a) What is infection?
- (b) Discuss in brief the characteristics and mode of transmission of infectious diseases?
- (c) Why food is considered as a 'vehicle' for transmission of disease? $1+(1+2)+1$

Or

- (a) What is epidemic?
- (b) Give a brief account of Epidemiological Triad. $1+4$

(Unit—18)

Answer all questions from the following :

1. (a) Briefly discuss the principles of accident prevention.
 (b) What safety measures are to be adopted at work place to avoid accidents ? $2\frac{1}{2}+2\frac{1}{2}$

Or

- (a) What is Swiss Cheese model of accident ?
 (b) Describe briefly unsafe acts commonly seen in daily life. 2+3
2. (a) State the importance of cardiorespiratory endurance.
 (b) How can one improve cardiorespiratory fitness ? 3+2

Or

- (a) Make a comparison between yoga and conventional exercise from the physiological point of view.
 (b) Write psychomotor and biochemical benefits of practising yoga. 2+3

3. (a) What do you understand by therapeutic diet ?
- (b) Name some of the common therapeutic diets.
- (c) What is a low residue diet ?
- (d) Discuss the difference between mass food fortification and targeted food fortification. 1+2+1+1

Or

- (a) Discuss the benefits of calorie restriction in aged people.
- (b) Mention the principle of meal planning for adolescents. 2+3
4. (a) Write down the fundamental principles for control of communicable diseases.
- (b) Mention the major steps in Rapid Health Assessment and outbreak control. 2+(1½+1½)

Or

- (a) State the importance of lifestyle management.
- (b) How can one prevent obesity by lifestyle management.

3+2