

**2017**

**M.Sc.**

**Part-II Examination**

**DIETETICS AND COMMUNITY NUTRITION MANAGEMENT**

**PAPER—VII (Unit-13)**

*Full Marks : 50*

*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.*

**Answer Question No. 1 and any four from the rest.**

**1. Answer any five of the following : 5×2**

- (a) Write the different components of epidemiologic triad.
- (b) Distinguish between infection and contamination.
- (c) Write the principles of food safety.
- (d) What do you mean by antitoxic immunity?
- (e) Differentiate between opposition and ADCC reaction.

*(Turn Over)*

- (f) Define quarantine.
- (g) How do you assess water quality?
- (h) What is healthy communities?
2. (a) Describe the cellular mechanisms of antibacterial immune-response.
- (b) "Bacterial polysaccharide capsules may be used as vaccine"— Explain it.
- (c) Give a brief description of the factors responsible for macrophage activation with a suitable diagram.
- 3+3+4
3. (a) What do you understand by chemoprophylaxis?
- (b) Define reservoir. Classify and describe the features of human reservoir.
- (c) What is nosocomial infections? Describe the different steps used in the management of a communicable disease outbreak.
- 2+(1+3)+(1+3)
4. (a) What do you understand by food born intoxication?
- (b) Classify and elaborate the nature of different classes of food safety hazards.

- (c) "Keeping hot food hot and cold food cold are healthy"— Explain.
- 2+(1+4)+3
5. (a) Schematically represent and explain the dynamics of the transmission of typhoid fever.
- (b) Write on the controlling mechanism of this fever.
- (c) Describe the origin and symptoms of diphtheria.
- 3+3+(2+2)
6. (a) Describe critically the designing of vaccines for active immunisation.
- (b) How are effector T cells formed.
- (c) Write a short note on opsonization.
- 4+3+3
7. (a) What is biological oxygen demand?
- (b) How would you prevent coastal water pollution?
- (c) Discuss O<sub>2</sub> sag curve with a suitable diagram.
- 1+4+5
8. (a) Critically write on the origin and target organs of tuberculosis.
- (b) Mention the signs and symptoms of hepatitis-B.

(c) Describe the components of diarrhoeal diseases control programme as recommended by WHO.

(2+2)+2+4

9. (a) What are the causes of entrophication in lake?

(b) What is safe drinking water act?

(c) How tertiary sewage treatment is accomplished?

3+3+4

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