

2016

M.Sc.

Part-II Examination

DIETETICS AND COMMUNITY NUTRITION MANAGEMENT

PAPER—VI (Unit-12)

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) Define Odd's ratio.
- (b) Cite one advantage and disadvantage of Food Frequency Questionnaire (FFQ).
- (c) Define case study.
- (d) What are the selection bias in case-control studies?

(Turn Over)

- (e) What do you understand by herd immunity?
- (f) What do you mean by a semi-structured questionnaire?
- (g) Give four examples of infectious diseases mention their incubation periods.
- (h) What is the difference between quarantine and isolation?
2. (a) What do you understand by active and passive immunity?
- (b) Give three general sources of infectious diseases with suitable examples.
- (c) What are meant by virulence of a pathogen?
- (d) How do incubation periods differ from latency periods? $3+3+1+3$
3. (a) What is analytical epidemiology?
- (b) Describe the different methods used in analytical epidemiology with reference to the study of disease pattern in a community.
- (c) Mention two differences between cohort study and cross-sectional study. $2+6+2$
4. (a) Identify the indices used in identifying health status in a population.
- (b) What are population pyramids?

- (c) Discuss the principles of nutritional epidemiology and enlist the methods used in it. $2+1+7$
5. (a) Discuss about the factors that may confound interpretation of biochemical tests used for the assessment of nutritional status.
- (b) What is the difference between diet recall method and weighed food record?
- (c) What are food balance sheets?
- (d) What is the importance of using surrogate sources for obtaining dietary intake data? $3+2+2+3$
6. (a) What do you understand by load tests?
- (b) Mention the difference between stunting and wasting.
- (c) Discuss the merits and demerits of using aliquot sampling technique in direct analysis of food consumption data. $3+3+4$
7. (a) Describe the significance of measurement of head circumference in children.
- (b) Briefly discuss the errors in nutritional anthropometric methods that can affect the validity of measurements.

- (c) How are 24hr urine samples used as biological markers in the assessment of nutritional status?

3+4+3

8. (a) What is diet history?

- (b) Describe the merits and demerits of this method.

- (c) Discuss the methods used in estimating portion sizes of food consumption.

2+6+2

9. (a) What do you understand by vector-borne transmission of diseases?

- (b) Differentiate between vector-borne transmission and vehicle-borne transmission of disease.

- (c) What is the difference between a primary case and an index case?

- (d) What do you understand by community trial?

- (e) What is the difference between efficacy and effectiveness of a health intervention program?

2+2+2+2+2