

2014

**M.Sc. Part-II Examination**

**DIETETICS AND COMMUNITY NUTRITION MANAGEMENT**

**PAPER—VIII (Unit-16)**

*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 : 2×5
- (a) What do you mean by the ecological factor of malnutrition?
  - (b) Write the recovery cycle of disaster management.
  - (c) What do you mean by level of significance?
  - (d) What is type I error of inference?
  - (e) What is hard disk?

*(Turn Over)*

- (f) What is utility program ?  
 (g) What is op-code ?  
 (h) What is conjoint disaster ?

2. (a) What is nutritional surveillance ?

- (b) Write the assessment process of nutritional status of drought affected population..  
 (c) State the target type food supplementation in flood affected areas.

3+4+3

3. (a) Explain food related vulnerability. Name different vulnerable groups.

- (b) Discuss different approaches for mapping of food related vulnerability.

(2+2)+6

4. (a) State the assumptions of t-test.

- (b) Compute the t-value of group means of the following data.

Hb values (gm/dl) or men and women

|         |    |    |    |    |    |    |    |    |    |    |
|---------|----|----|----|----|----|----|----|----|----|----|
| Men :   | 12 | 15 | 16 | 14 | 12 | 11 | 10 | 14 | 13 | 14 |
| Women : | 12 | 13 | 11 | 12 | 10 | 12 | 11 | 09 | 10 | 12 |

3+7

5. (a) What do you mean by positive and negative correlation ?

- (b) Compute the correlation coefficient of body weight (kg) and protein intake (gm) of 10 children.

|                       |    |    |    |    |    |    |    |    |    |    |
|-----------------------|----|----|----|----|----|----|----|----|----|----|
| Sl. No. :             | 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 |
| Weight (kg) :         | 30 | 35 | 20 | 25 | 25 | 30 | 35 | 35 | 20 | 25 |
| Protein intake (gm) : | 35 | 40 | 25 | 30 | 25 | 35 | 40 | 40 | 30 | 35 |

3+7

6. (a) Discuss the basic structure of CPU of a computer with a block diagram. State the functions of different subunits of CPU.

- (b) State the difference between RAM and ROM.

(c) What is secondary memory of a computer ?

(3+3)+2+2

7. (a) Write a computer program to compute BMI from height and weight data of human subjects.

- (b) Explain numeric and string variables of BASIC with examples.

(c) What is logical expression ?

4+4+2

8. (a) What is frequency polygon? How do you draw a smoothed frequency polygon?

(b) What do you mean by cumulative frequency? Write a brief account of frequency ogive.

(2+3)+(2+3)

9. (a) What are operating system and application program?

(b) What is BASIC? Is it a High level language? Justify your answer.

(c) What is compiler?

(2+2)+(3+2)+1