

2015

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 : 5×2
- (a) What do you mean by Surveillance ?
 - (b) Distinguish between risk and hazard.
 - (c) Write two disadvantages of cooked ration system.
 - (d) What is histogram ?
 - (e) What is machine language ?
 - (f) What is OCR ? Mention its function.

(Turn Over)

- (g) What is qualitative frequency distribution ?
- (h) Define algorithm.
2. (a) What is disaster ? Differentiate between natural and non-natural disasters.
- (b) Discuss community nutrition management in the rescue and recovery phases in nutritional emergency.
- 3+7
3. (a) Why children and geriatric persons are most vulnerable in disaster period ?
- (b) Why dry packed food distribution is not continued for long run in post disaster period ?
- (c) Write two indicators of decreasing vulnerability.
- 4+4+2
4. (a) State the assumption of chi-square test.
- (b) How would you work out chi-square in connection to 'goodness of fit' testing ?
- (c) How do you evaluate the significance of chi-square ?
- 4+4+2

5. (a) What is hypothesis ? Explain null hypothesis and alternative hypothesis.
- (b) What are errors of influence ? Explain type I and type II errors of influence.
- (1+4)+(1+4)
6. (a) What do you mean by one tail and two tail t-test ?
- (b) Write the formulae for computing 't' for the following cases and mention df for each case :
- (i) for small and unequal-size independent groups ;
- (ii) for both large and small independent groups of equal size ;
- (iii) large groups of unequal size.
- 4+6
7. (a) What do you mean by hardware and software of a computer ?
- (b) State the difference between compiler and interpreter.
- (c) Give a brief account of input and output devices of a computer.
- 2+2+6

8. (a) What do you understand by numeric and string constants? Give examples.
- (b) Write a computer program to convert the body weight of a person in pound to kilogram.
- (c) Differentiate between program and programming language. What is procedure oriented language?

4+3+3

9. (a) Explain the following :

- (i) ROM ;
- (ii) PROM ;
- (iii) EPROM.

- (b) What do you mean by 'Byte' and 'Kilobyte'?

- (c) State how computer can be applied in nutrition and dietetics.

6+2+2