M.Sc.

2013

2nd Semester Examination

NUTRITION & DIETETICS

PAPER—NUD-202

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.

Module—I

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

   (a) What is the utility of Kaplan Meir method ?

   (b) Which surveilliance system gives an idea about the morbidity rate in a community ?

   (c) What is predictive value ?

   (d) What do you mean by secondary attack rate ?

   (e) What is the significance of Mid-year population ?

   (g) What is recall bias ?

   (g) Which epidemiologic study you will follow to calculate the incidence of diarrhoea in a community ?

   (h) What is attributable risk ?

(Turn Over)

2. (a) A screening test was considered for diagnosing nutritional anaemia. Out of 80 positive cases, 40 actually had no anaemia. Out of 9920 tested negative cases of anaemia, 9840 actually had no anaemia. Calculate sensitivity specificity positive and negative predictive value of the test.

(b) What is herd immunity ? 6+2

Or

(a) In an epidemiological study 400 smokers and 600 nonsmokers were followed up over a period of 25 years to find out the incidence of atherosclerosis. The following table summarizes the date at the end of the study. 4+4

Hypertension

		Yes	No	Total
Smoking	Yes	120	280	400
	No	30	570	600
	Total	150	850	1000

Calculate the relative risk.

(b) Discuss briefly about periodic fluctuation of disease with example. 4+4

3. (a) What would be the actual approach for acceptability of a screening test and why it is important ?

(b) What are the differences between mass screening and selective screening ?

(c) What is the significance of borderline value in nutritional epidemiology ? (1+1)+3+2

Or

(a) What do you mean by primordial prevention of a disease ?

(b) What is sentinel surveillance ?

(c) What would be the different approaches of primary prevention of hypertension — discuss briefly.

2+2+3

Module—II

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

   (a) What is the use of Nalgenda techniques ?

   (b) Write the names of two goiterogenic substances found in some vegetables.

   (c) What is android obesity ?

   (d) Write the name of a micro-organism affecting oral hygiene.

   (e) What is corpulence index ?

   (f) What do you mean by syndrome X ?

   (g) What is ariboflavinoses ?

   (h) What is iceberg phenomenon of a disease ?

5. (a) Mention about different genetic markers of IDDM and NIDDM.

   (b) What is the importance of WHR in the assessment of CVD ?

   (c) Discuss briefly about the modifiable risk factors of hypertension. 3+2+3

(Turn Over)

Or

(a) Describe about the epidemiological determinants of blindness.

(b) What do you mean by 'avoidable blindness'?

6+2

6. (a) What is periodontal disease

(b) State the etiology of this disease.

(c) State about the different preventive measures of rickets.

2+2+3

Or

(a) What is sideroblastic anaemia?

(b) Describe about the genetic and nutritional determinants of sideroblastic anaemia.

2+5

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