

M.Sc.

2015

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 meta-analysis ?
 - (b) Why risk difference is measured ?
 - (c) How is perinatal mortality rate expressed ?
 - (d) Define emporiatrics.
 - (e) What is meant by an index case ?
 - (f) What is the objective of primordial prevention ?
 - (g) What was Pettenkofer's contribution to disease etiology ?
 - (h) What is nutritional surveillance ?

(Turn Over)

2. (a) With the help of a schematic diagram, show the epidemiological study designs.
- (b) Write down the basic differences between longitudinal studies and cross sectional studies.
- (c) Make a list of characteristics examined in descriptive studies. 3+3+2

Or

- (a) Draw a parallelism between case-control study and cohort study:
- (b) Explain the concept of causation with a suitable example.
- (c) What are the demerits of a case control study as compared to cohort study? 3+3+2
3. (a) 1000 contacts of TB cases of an area were asked to participate in a survey to identify latent mycobacterium tuberculosis infection. They were interviewed and tested with TST. It was found that 380 out of 510 male contacts and 190 out of 490 female contacts were tested positive on TST. Calculate odds ratio and interpret the result.
- (b) Write down the different stages of development of an infectious disease. 5+2

Or

- (a) A drug company has developed a test for pregnancy. Out of 100 pregnant women, 98 showed positive result. The same test was administered to 120 non-pregnant women. 112 showed negative result. Calculate (i) Sensitivity ; (ii) Specificity ; (iii) Predictive value for +ve test ; (iv) Predictive value for -ve test.
- (b) What is the importance of epidemic mapping? 5+2

Module—II

4. Answer any *five* questions from the following : 1×5
- (a) Name two toxic factors present in lathyrus species.
 - (b) What is French paradox?
 - (c) What does nystagmus refer to?
 - (d) What is M-hypoplasia?
 - (e) What is "Dash Diet"?
 - (f) Why skin capillary fragility test is performed?
 - (g) What is Somogyi phenomenon?
 - (h) What is the significance of white line of Frankel?
5. (a) What do you know about the pathophysiological basis of the signs and symptoms of diabetes mellitus?
- (b) Write down the major differences between android obesity and gynacoid obesity.
- (c) What are the major radiological findings in osteoporosis? 3+3+2

Or

- (a) What is "Household Food Security"?
- (b) "Only food security is not enough to combat malnutrition" — Justify the statement.
- (c) The World Health Day slogan of 2015.— "Food safety from Farm to plate." — Critically justify the statement. 3+3+2

6. (a) What are the different biochemical indicators used for diagnosis of iron deficiency ?
- (b) How does hookworm infestation lead to anaemia in children ?
- (c) What course of treatment is followed for a child suffering from active florid ricket ? 3+2+3

Or

- (a) Discuss the different stick stages of lathyrism.
- (b) Explain the importance of food exchange list.
- (c) Why are maize and sorghum not recommended as staple food ? 3+3+2
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