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Reg. No : .....

Name : .....

**BACHELOR'S DEGREE (C.B.C.S) EXAMINATION, NOVEMBER 2024**

**2022 ADMISSIONS REGULAR**

**SEMESTER V - CORE COURSE (NUTRITION AND DIETETICS )**

**ND5B12B20 - Nutritional Epidemiology**

**Time : 3 Hours**

**Maximum Marks : 80**

**Part A**

**I. Answer any Ten questions. Each question carries 2 marks**

**(10x2=20)**

1. Enumerate the disadvantages of nutritional epidemiology.
2. Enumerate the advantages of epidemiology.
3. Define a hypothesis.
4. Discuss briefly the significance of hypothesis generation.
5. Enumerate and classify observational study designs.
6. Discuss sandwich ELISA technique. Explain the steps.
7. Describe RRR.
8. Summarize the applications of biomarkers in public health.
9. Explain recall bias and question order bias.
10. Explain reliability of food frequency questionnaire.
11. Explain any three research questions in dietary research.
12. Discuss the examples of biochemical indicators sensitive to long term intake.

**Part B**

**II. Answer any Six questions. Each question carries 5 marks**

**(6x5=30)**

13. Enumerate and explain three types of variables on which epidemiologist generally collect information to carry out a study.
14. Explain types of exposure. Detail on measurement of exposures.
15. Discuss extraneous variables. Give any two examples.
16. Discuss the significance of RCTs.
17. Classify study designs based on strength of evidence.
18. Explain the aims and missions of BOND program.
19. Explain how residual confounding can affect results of an epidemiological study. Give two examples.
20. Describe nutrient databases.
21. Explain food list.

**Part C**

**III. Answer any Two questions. Each question carries 15 marks**

**(2x15=30)**

22. Explain any five observational study designs with an example for each.
23. Discuss on objective and subjective dietary assessment methods in nutritional epidemiological studies.
24. Explain on the biochemical indicator measures of vitamins.
25. Describe the risk factors of type 2 diabetes.