B. Sc. DEGREE (C.B.C.S.) EXAMINATION, NOVEMBER 2022
(2020 Admission 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. Explain the factors that are considered while selecting a method for exposure measurement.

2. What is meant by temporal relationship between exposure and outcome?

3. Enumerate and classify epidemiological study designs.

4. Explain the difference between case studies and case series.

5. Discuss the significance of systematic reviews.

6. Describe p value, null hypothesis, alternate hypothesis with example.

7. Explain p value.

8. Explain correlation.

9. Discuss a) response bias b) non-response bias and c) acquiescence bias.

10. Explain validity of food frequency questionnaire.

11. Discuss random measurement errors with examples.

12. Explain any one method of analytical measurement of biochemical indicator.

Part B

II. Answer any Six questions. Each question carries 5 marks   **(6x5=30)**

13. Describe exposures and outcomes with three examples.

14. Discuss how multiple determinants and long latent periods of diseases become a challenge in nutritional epidemiological studies. Explain with example.

15. Discuss extraneous variables. Give any two examples.

16. What is a cohort study? Explain its significance in epidemiological studies.

17. Discuss the significance of RCTs.

18. Discover the role of ELISA in determining the nutritional biomarkers.

19. Explain type I and type II error with an example.

20. Explain any three common dietary research questions and different levels in which diet can be considered.

21. Explain variation in diet and misreporting of data.

Part C

III. Answer any Two questions. Each question carries 15 marks   **(2x15=30)**

22. Compare and contrast observational studies and experimental studies in nutrition epidemiology.

23. Discuss on objective and subjective dietary assessment methods in nutritional epidemiological studies.

24. Review general principles and any 5 considerations to improve biochemical indicator measures.

25. Generalize on the treatment and control of diabetes according NNCD survey.