

**Third Semester Examination-2018****M.Sc. NUTRITION & DIETETICS**

Paper Code: NUD-301

Full Marks: 40

Time: 2 Hours

**Write the answer for each unit in separate sheet****Unit-25****(Bio-statistics in Nutrition)****Answer question no. 1 and any three from the rest.****1. Answer any five questions from the following: 1×5=5**

- a) Write the difference between sample and population.
- b) What do you mean by cumulative frequency?
- c) Differentiate between bar and pie diagram.
- d) Write any **One assumption of best.**
- e) Define rule hypothesis.
- f) Write the importance of variance with computation formula.
- g) Define levels of significance.
- h) Distinguish between percentiles and quartiles.

**2. a) What are the difference between frequency polygon and histogram? 2+3=5****b) What are the steps considered in frequency Polygon with example?****3. a) Differentiate between Skewness and Kurtosis. 5****b) Compute the Percentile 50 ( $P_{50}$ ) or quartile 2 ( $Q_2$ ) from the 2½+2½=5  
following frequency distribution of a sample in a variable.**

C9: 40-44, 45-49, 50-54, 55-59, 60-64

(f): 4      8      20      8      4

4. Compute the median & mode of the following frequency distribution of achievement test scores in a group of students. **5**

Class intervals: 67-77 77-86 87-96 97-106 107-116 117-126

Frequencies: 8 13 18 19 15 5

5. a) Write down two difference between Binomial & Poisson distribution. **5**

- b) Compute the SD & SG of the mean using the following frequency distribution of body heights (cm).

Class intervals: 156-160 161-165 166-170 171-175 176-180

Frequencies: 4 14 25 11 6

6. a) Define correlation with examples. **2+3=5**

- b) How compute the rank correlation between two variables and significance the correlation of the results?

7. a) What is contingency table? **2+3=5**

- b) Find out whether or not significant association between 30 hypertension suffering individuals out of 50 diabetic & 15 hypertension suffering from out of 55 non-diabetic individuals with consider the following critical chi squares core:

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**Unit- 26****(Research Methodology)**

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|---|--------------|
| <b>1. Answer any five questions:</b>  | <b>5×1=5</b> |
| a) What is meant of the term ‘Research’?  | <b>1</b>     |
| b) What is Sam thing?   | <b>1</b>     |
| c) What do you mean by reproducible result?   | <b>1</b>     |
| d) What is citation of a research article?  | <b>1</b>     |
| e) What is dichotomous variable?  | <b>1</b>     |
| f) What is null hypothesis?   | <b>1</b>     |
| g) What is data?  | <b>1</b>     |
| h) Write any two criteria of a good research proposal.  | <b>1</b>     |
| <b>2. Discuss the preliminary steps to be adopted before the initiate of research.</b>                              | <b>5</b>     |
| <b>3. How do you differentiate retrospective and prospective research studies?</b>                                  | <b>5</b>     |
| <b>4. Write the features of good research design. Describe in brief about random sampling.</b>                      | <b>3+2=5</b> |
| <b>5. What is plagiarism in .....? State the impendance of pilot project.</b>                                       | <b>3+2=5</b> |
| <b>6. Distinguish between basic and applied research, what is probability?</b>                                      | <b>4+1=5</b> |
| <b>7. Define research ethics state the guideline of eterics to be followed for Conduction of research on human.</b> | <b>1+4=5</b> |

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