

Write the answer for each unit in separate sheet

**Unit-25****(Bio-statistics in Nutrition)****Group-A**

1. Answer any two of the following questions: 2×2=4
- RDA is what type of statistical analysis?
  - Differentiate between parametric and non-Parametric test.
  - What is the importance of  $x \pm 1.2SD$  in nutrition?
  - Relationship between criterion & Predictor.

**Group-B**

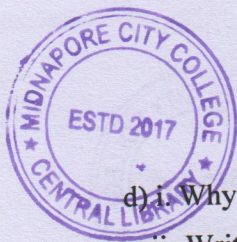
2. Answer any two of the following questions: 2×4=8
- What are the importance of graphical representation?
    - What are the steps taken into preparation for Polygon graph? 2+2
  - Write the different types of correlation.
    - Write the computation formulae of product moment correlation, computed 't' score and degree of freedom. 2+2
  - Find out whether or not there is a significant association between diabetes and hypertension, when 25 are hypertensive out of 50 diabetes individuals. Whereas out of 60 nondiabetic 20 are hypertensive, and using the specific critical  $\chi^2$  value given below:

$$\text{Critical } \chi^2_{0.02(3)} = 9.84, \chi^2_{0.02(2)} = 7.82,$$

$$\chi^2_{0.02(1)} = 5.41$$

4

(P.T.O)



(2)

d) i. Why ANOVA is more powerful than 't'-test?

ii. Write the computation formulae of SSt, SSb and SSw for two sets of scores. 2+2

**Group-C**

3. Answer any one of the following questions:

1×8=8

a) i. Compute the SD of the following frequency distribution of body wt.

(kg) scores and identify severe under nutrition value. 5+3

Class Interval	30-34	35-39	40-44	45-49	50-54	55-59
Frequency:	3	7	20	7	6	2

ii. What are the assumptions of pair 't-test'?

b) i. What are the assumptions of regression?

ii. Write the importance of correlation and regression in your subject.

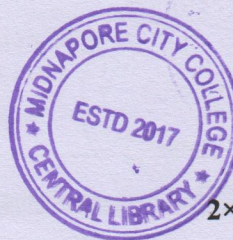
iii. Compute the correlation between the following body wt.(kg) and body height (cm) scores. 2+3+3

Body wt. (kg): 55, 50, 55, 60, 50, 45

Body ht.(cm): 154, 150, 155, 160, 155, 150

(P.T.O)

(3)

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

2×2=4

**1. Answer any two of the following questions:**

- a) What is 'Odd ratio'?
- b) Define pilot project.
- c) What is retrospective study?
- d) Write the difference between review and overview.

**Group-B****2. Answer any two of the following questions:**

2×4=8

- a) Write in short about cross sectional and longitudinal study.
- b) Write the steps of cohort study in brief.
- c) State the differences between qualitative and quantitative research in food and nutrition.
- d) Describe the methods of presenting research funding's.

**Group-C****3. Answer any one of the following questions:**

1×8=8

- a) Classify probability sampling. Write in brief about random sampling and stratified random sampling. 3+5
- b) State the steps adopted for project implementation. Write the project evaluation techniques. 5+3

\*\*\*\*\*