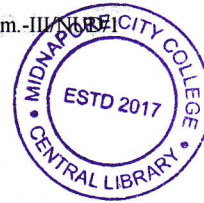


PG CBCS
M.Sc. Semester-III Examination, 2022
NUTRITION & DIETETICS
 Paper: NUD 301



Full Marks: 40

Time: 2 Hours

Write the answer for each unit in separate sheet

UNIT-25

(Bio-statistics in Nutrition)

GROUP-A

Answer any **TWO** of the following questions:

2×2=4

1. Distinguish between Dispersion statistics and statistics locations.
2. Differentiate between bar diagram and pie-diagram.
3. How do you interpret Mean \pm 1SD and Mean \pm 2SD?
4. What type of statistical measure is RDA and why?

GROUP-B

Answer any **TWO** of the following questions:

2×4=8

5. Compute the median and standard deviation of the following body weights [kg] scores:

Class Intervals	51-53	54-56	57-59	60-62	63-65	66-68	69-71
Frequencies	5	7	14	28	15	8	3
6. Differentiate between correlation and regression with examples.
7. How do you compute correlation of coefficient between two variables and how do you interpret the significant of correlation?
8. Why ANOVA is more powerful than t-test? Classify with example of ANOVA. 2+2

GROUP-C

Answer any **ONE** of the following questions:

1×8=8

9. Write the different assumptions of t-test.

How to compute 't' value from the following pair scores of hemoglobin percentage (gm%) of 9 adolescent girls before and after iron tablet supplementation.

Hb% before Fe⁺ Supple: 08, 07, 09, 10, 09, 08, 11, 10, 12

Hb% after Fe⁺ Supple: 11, 10, 12, 13, 12, 10, 13, 11, 15

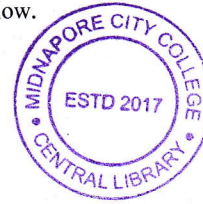
(1)

(P.T.O.)

10. What are the importance of chi-square test?

Find out whether there is a significant association between diabetes and hypertension, when 30 are hypertensive out of 70 diabetes individuals and out of 60 non-diabetic, 20 are hypertensive. Selected critical chi-square values are given below.

Critical $\chi^2_{0.02(3)} = 9.84$, $\chi^2_{0.02(2)} = 7.82$, $\chi^2_{0.02(1)} = 5.41$



UNIT- 26

(Research Methodology)

GROUP-A

Answer any **TWO** of the following questions:

2×2=4

1. What do you mean by research ethics?
2. What is h-index?
3. Define experimental research.
4. What is action research?

GROUP-B

Answer any **TWO** of the following questions:

2×4=8

5. Write the criteria of a good researcher.
6. What are the criteria of a good experimental research output?
7. Write the major steps that should be followed to maintain research ethics.
8. Discuss about stratified random sampling in research.

GROUP-C

Answer any **ONE** of the following questions:

1×8=8

9. What is questionnaire in survey method? What are the criteria for good questionnaire?
What is PERT chart? 2+4+4=8
10. State the components of experimental research. Write the basic differences between cross sectional and longitudinal research. 4+4=8

(2)