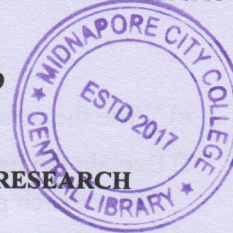


PG CBCS
M.Sc. Semester-III Examination, 2019
FOOD SCIENCE & NUTRITION
PAPER: FSN-302
(STATISTICS, COMPUTER APPLICATION & RESEARCH
METHODOLOGY)



Full Marks: 40

Time: 2 Hours

1. Answer any four of the following questions:**2×4=8**

- a) What do you mean by Null hypothesis?
- b) Write the formulae of standard error for group data.
- c) What are the differences between sample & population mean?
- d) Convert $(1234)_{10}$ into binary equivalent.
- e) What is electronics spreadsheet? How it is used in statistical data processing?
- f) Distinguish between application software and utility software.
- g) What is PERT chart?
- h) What do you mean by plagiarism in research?

2. Answer any four of the following questions:**4×4=16**

- a) Compute the Mode & Median of the following frequency distribution of blood sugar level (mg/dl).

Class Interval:	80-100	100-120	120-140	140-160	160-180
Frequencies:	6	7	8	10	12

- b) Drawing steps of a pic diagram for the following frequency distribution of a blood group in a sample.

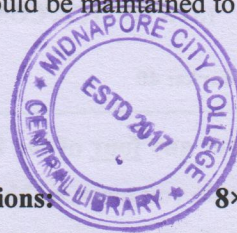
Blood groups	A	O	B	AB	Total
Frequencies	122	58	38	42	260

- c) Write the importance of a pilot experiment in a research proposal.
- d) State the main features of 3rd generation computer.

(P.T.O.)

(2)

- e) Write the personal quality requirements of a good researcher.
- f) Explain the basic research ethics that should be maintained to carry out the research proposal.
- g) Describe LAN, CAN, MAN, & WAN.
- h) State the function of ISO OSI layer.



3. Answer any two of the following questions: 8×2=16

- a) Out of 20 diabetic subjects, 6 were found to be suffering from hyperlipidemia while the rest had normal lipid profile. Out of 12 non-diabetics, 3 had high serum triglycerides while the rest had normal serum lipid profile. Is there any significant association between hyperlipidemia & diabetes?
- b) i. What is operating system?
 - ii. What are different types of operating system discussed with the suitable example?
 - iii. What are different types of system software? 2+4+2
- c) i. What is DBMS?
 - ii. What are the applications of DBMS in biological science with example?
 - iii. What are primary key, foreign key & alternative key? 2+4+2
- d) i. Write the different features of quantitative and qualitative research.
 - ii. State about the cohort study. 5+3
