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

Full Marks: 40 **Time: 2 Hours**

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1. Answer any <u>four</u> 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 <u>four</u> of the following questions: 4×4=16

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

Class Internal:	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.)

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 <u>two</u> 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

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