

**Food Science and Nutrition (P.G.)  
[CBCS]**

**M.Sc. Second Semester End Examination-2024  
(Regular & Supplementary Paper)  
PAPER-MFSN 201**

**Full Marks: 40**

**Time: 02 Hrs**

*The figures in the right hand margin indicate marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

*Illustrate the answers wherever necessary.*

**Group A**

1. Answer any five questions of the following: **2x5= 10**
- Define finite and infinite population with examples.
  - Differentiate between frequency distribution and contingency tables.
  - Why statistics is more important in your subject?
  - What do you mean by random sampling.
  - Write down the full form of BLAST and FASTA.
  - Differentiate between PROM and EPROM.
  - What do you mean by language professor?
  - Write down the difference between web browser and search engine.

(2)

**Group B**

2. Answer any four questions of the following: **4x5= 20**

a. Compute the median and Skwness of the following body weights [kg] score

Class	51-	54-	57-	60-	63-	66-	69-
intervals	53	56	59	62	65	68	71
Frequencies	5	10	14	28	15	8	3

b. Write the different types of variables with examples on the basis of properties and experiment.

c. Explain about different computer memories with merits and demerits.

d. Write short notes on DDBJ and NCBI.

e. What are the reasons for preferring ANOVA with different types.

f. Compute Spearman Correlation of coefficient of the following body weight (Kg) & body length (cm) of the babies.

Sl no of Babies	1	2	3	4	5
body length (cm)	50	80	90	80	70
body weight (Kg)	5.6	9.0	9.0	6.5	4.0

**Group C**

3. Answer any one question of the following: **1x10=10**

a. What are the importance of chi-square and why this test is non-parametric? Find out whether or not significance

(3)

association between smoker and cancer, when 02 people are suffering cancer out of 24 are smokers, where as out of 10 non-smokers 01 is suffering from cancer with using the selected critical chi-square value as given below.

Critical  $X^2_{0.02(3)} = 9.84$   $X^2_{0.02(2)} = 7.82$   $X^2_{0.02(1)} = 5.41$  3+2+5

b. Write the various interfaces and applications of SPSS. Write the different steps in BLAST alignment. State the steps adopted to draw bar diagram in MS-Excel. **4+4+2**

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