

KANYASHREE UNIVERSITY

M.Sc. 3rd Semester Examination-2024

Subject: Food & Nutrition

Course- CC 14

Biostatistics and Computer Application

Full Marks-40

Time-2.00 Hours

GROUP - A

(Answer **any four** of the following)

(5×4=20)

1. What is dependent variable and independent variable? Give examples. Define class limit and class boundary. [3+2]
2. What do you mean by kurtosis? What do you mean by type I and type II error? [3+2]
3. Find out the mean, and median of the following data set-
25, 32, 38, 35, 46, 41, 95, 79, 39, 88, 99. [5]
4. Write down the steps in representing a data set through pie chart? [5]
5. Define and give examples of descriptive research and empirical research methods. What do you mean by infant mortality rate? [3+2]
6. Mention the functions of the following input and output devices: keyboard and printer. How will insert a picture in a power point presentation? [3+2]
7. What do you mean by chi-square and F-distribution? [2.5+2.5]

GROUP – B

(Answer **any two** of the following)

(10× 2=20)

1. i) From the following table find out the regression equations a) when sale is dependent on purchase and b) when purchase is dependent on sales. [8]

Sales	Purchase(s)
91	71
97	75
108	69
121	97
67	70
124	91
51	39
73	61
111	80
57	47

- ii) What do you mean by linear regression? [2]

2.

a) The following table shows the marks obtained by the students obtained in a banking exam. Find out the Spearman's rank correlation coefficient of the given data set.

[6]

Student	Reasoning test score	Aptitude test score
A	20	30
B	50	60
C	28	50
D	25	40
E	70	85
F	90	90
G	76	56
H	45	82
I	30	42
J	19	31
K	26	49

b) Explain briefly scatter diagram.

[4]

3.

a) Following table shows the test scores obtained by students in an exam

Test scores	Frequency
15-25	11
25-35	29
35-45	18
45-55	4
55-65	5
65-75	3

Find out the standard deviation and variance of the numbers.

[6]

b) Define stratified sampling technique and systematic sampling technique.

[4]

4. What is operating system? Name four operating systems and their functions. How will you add special effects in a power point presentation? How will you open and save a document in MS-Word?

[2+4+2+2]
