

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

B.Voc DEGREE EXAMINATION DECEMBER 2017
(Third Semester)

Branch - FOOD PROCESSING TECHNOLOGY

DATA ANALYTICS

Time: Three Hours

Maximum: 75 Marks

SECTION-A (20 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (10 x 2 = 20)

- 1 Define interview schedule.
- 2 What is ogives?
- 3 Enlist the merits of mean.
- 4 Give the formula for calculating arithmetic mean by continuous series.
- 5 What is regression?
- 6 Give any two properties of correlation coefficient.
- 7 What are type I and type II errors in tests of hypothesis?
- 8 Give the assumptions made for large sample significance test.
- 9 Define 'ANOVA'
- 10 Mention any two characteristics of X^2 test.

SECTION - B (25 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 5 = 25)

- 11 a Explain about tabulation.
OR
b Describe the methods of collecting primary data.
- 12 a From the following table, find the median and the mode.
Income (Rs.): 100 -200 100-300 100-400 100-500 100-600
• No. of Person: 15 35 63 83 100
OR
b Explain the purpose of measuring variation.
- 13 a Find the correlation coefficient of the following data:
X: 20 23 8 29 14 11 11 .20 17 17
Y: 30 35 21 23 33 26 22 31 33 36
OR
b Differentiate correlation and regression.
- 14 a Explain student t-test.
OR
b Discuss the rationale of the tests of significance for large and small samples.
- 15 a Elaborate on experimental designs in ANOVA.
OR
b What are the applications of chi-square test?

SECTION - C (30 Marks)Answer any **THREE** Questions**ALL** Questions Carry **EQUAL** Marks (3 x 10 = 30)

- 16 What are the different types of graphs used in data presentation?
- 17 Describe the desirable characteristics of an ideal measures of central tendency.
- 18 Compute rank correlation coefficient.
 X: 17 14 12 13 10 15 11 16
 Y: 9 15 10 14 16 11 17 12
- 19 Gain in weight of experimental animals fed two types of diets D_1 and D_2 are given below. Test whether the diets differ significantly.
 D_1 25 32 30 24 29
 D_2 24 34 24 30 31 31

20 Perform ANOVA from the following data.

Processors			
1	2	3	4
1	2	3	4
4	8	6	8
5	5	7	8
6	7	5	5

2-Z-Z

END