

Reg. No. :

Name :

Second Semester M.Com. Degree Examination, July 2019

Paper III : CO 223 — QUANTITATIVE TECHNIQUES

(2014 – 2017 Admission)

Time : 3 Hours

Max. Marks : 75

SECTION – A

Answer the following questions in 2 or 3 sentences. Each question carries 2 marks.

1. Point out the applications of Chi- square test.
2. What are Non-Parametric tests?
3. What is Sign test?
4. What do you mean by confidence interval?
5. Write a note on Bernoulli distribution.
6. What is meant by Two tailed test of hypothesis?
7. Point out the statistical tools available in SPSS.
8. Distinguish between Type I error and type II error.
9. Explain Kruskal Wallis H test
10. What is a P chart?

(10 × 2 = 20 Marks)



SECTION – C

Answer any two of the following questions.

19. Two groups of 50 handicaps each were taken to study the association of blindness and deafness , and the observations were tabulated as under:

Attributes	Blind	Not blind	Total
Deaf	10	40	50
Not deaf	30	20	50
Total	40	60	100

Using the Chi square test at 5% level, verify the association of blindness with deafness.

20. From the data given below, make the variance analysis and state if there is a significant difference in the mean yield of the different samples due to soil variable.

Soil	Samples			
	I	II	III	IV
A	15	18	25	24
B	30	27	27	19
C	25	30	15	20

21. From a sample of 200 workers in the sector I of a locality ,it was known that their monthly average income is Rs.1500 and with a S.D of Rs.375.From another sample of 300 workers in the sector II Of the same locality ,it was found that their average income per month is Rs.1575 with a S.D of Rs.225.Test the hypothesis at 1% significance level that there is no real difference between the average income of the workers in both the sectors when the S.D of the entire locality is known to be Rs.300.

22. What is t-distribution? Elucidate its important features along with the assumptions underlying it. Also point out its various applications.

(2 × 15 = 30 Marks)