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(Pages: 2)

Name.....

Reg. No.....

FIRST SEMESTER M.Com. (CBCSS) [REGULAR/SUPPLEMENTARY] DEGREE EXAMINATION, NOVEMBER 2023

Master of Commerce

MCM 1C 03—QUANTITATIVE TECHNIQUES FOR BUSINESS DECISIONS (2019 Admisson onwards)

Time: Three Hours

Maximum Weightage: 30

Section A

Answer any four questions. Each question carries 2 weightage.

- 1. Explain the role of quantitative techniques in decision making.
- 2. State the concept of (a) Pont estimation (b) Interval estimation.
- 3. What is F Test? List out some of its applications.
- 4. Distinguish between Regression and Correlation.
- 5. Bring out the important properties of Poisson distribution.
- 6. Define hypothesis. Briefly explan different types of hypotheses.
- 7. Discuss the use of Excel in data analysis.

 $(4 \times 2 = 8 \text{ weightage})$

Section B

Answer any four questions. Each question carries 3 weightage.

- 8. Briefly explain the limitatons of quantitative techniques.
- 9. Write note on (a) One sample test and (b) Two sample tests.
- 10. The weekly wages of 1000 workmen are normally distributed around a mean of Rs. 70 and Standard deviation of Rs. 5. Estimate the number of workers whose weekly wages will be (a) between Rs. 69 and Rs. 72; (b) More than Rs. 75; (c) Less than Rs. 63.
- 11. A survey was conducted to study the relationship between expenditure on accommodation (x) and (x) and expenditure on food (y) and the following results were obtained:

Standard Deviation Mean 63.15 Expenditure on Accommodation (Rs.) 17322.98 47.86

Expenditure on Food (Rs.)

 C_0 -efficient of correlation = + 0.57

Write down the regression equation and estimate the expenditure on food when the expenditure expenditure on accommodation is Rs. 200. Turn over $_{\rm 12.\ Following\ table\ use\ the\ yield\ of\ 15\ sample\ plots\ and\ 3\ varieties\ of\ seeds}$:

2518 20 2820212217 232815 16 32 25

Test whether the average yield of land and the varieties of seeds differ significant

- 13. In a referendum submitted to the 'student body' at a university, 850 men and 550. In a referendum submitted to the state of the women voted 'yes'. Does this indicate a state of the men and 310 of the women voted 'yes'. difference of the opinion on the matter between men and women students?
- 14. A factory is producing 50000 pairs of shoes daily. From a sample of 500 pairs, 2 % to be of substandard quality. Estimate the number of pairs that can be reasonably to be spoiled in the daily production and assign limits at 95 % level of confidence

 $(4 \times 3 = 12 \text{ Weight$

Section C

Answer any two questions. Each question carries 5 weightage.

15. The recruits were subjected to selection test to ascertan their suitability for a course of training. At the end of the training, they were given proficiency test. The secured by the recruits are recorded below:

Selection Test Score (X) 65 66 67 68 69 70 71 67 Proficiency Test Score (Y): 67 68 64 7270 67 70 68

Calculate co-efficient of correlation and comment on the result.

16. Based on informatoin on 1000 randomly selected fields, about the tendency statu cultivation of these field and use of fertilizers, collected in Agro economic sur

Heine f		Owned	Rented	· 10-4-3
Using fertilizers		416	184	Total 600
Not using fertilizers . Total	.,,	64	336	400
ıld you conclude a	• • •	480	520	1000

Would you conclude that owner cultivators are more inclined towards the use of

17. Two samples are drawn from two normal population. From the following data test

Sample 2: 717476

18. Explain the different tools for analysis, available in SPSS. 88 91