QP CODE: 18103379

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Reg No : .....

Name : .....

B.Com. DEGREE (CBCS) EXAMINATION, NOVEMBER 2018

Third Semester

CORE COURSE - CO3CRT08 - QUANTITATIVE TECHNIQUES FOR BUSINESS- 1

(Common to all B.Com Degree Programmes)

2017 Admission Onwards

F98361EA

Maximum Marks: 80 **Time: 3 Hours**

Part A

Answer any **ten** questions.

Each question carries **2** mark.

1. What is Descriptive statistics?
2. State the Law of Inertia of Large Numbers.
3. What is classification?
4. What is continuous series?
5. Write the formula for calculating Quartile deviation and its co-efficient.
6. Calculate Mode.
   10, 15,20,25,30,35,40,45
7. What is harmonic mean?
8. What are the uses of coefficient of variation?
9. What is skewness?
10. Calculate Skewness , if μ 2 is 6 and μ3 is 19
11. What is Interpolation?
12. What is Extrapolation

(10×2=20)

Part B

Answer any **six** questions.

Each question carries **5** marks.

13. " Whenever arithmetic desires to lie, it disguises itself as statistics",Comment.
14. What are the advantages of sample survey?
15. What is secondary data? Which are the sources of secondary?
16. Explain the methods for collecting primary data?

17. Which are the parts of a table?

18. Mention the Mathematical properties of arithmetic mean.

19. Find median from the following distribution

Age(Year)	20	19	18	17	16	15	14	13	12	11
No. of students	1	2	4	8	11	10	7	4	2	1

20. Explain the properties of moments?

21. Calculate y when x is 50.

X	10	20	30	40
Y	100	400	900	1600

(6×5=30)

Part C

Answer any **two** questions.

Each question carries **15** marks.

22. What are the principle steps involved in the planning and execution of a sample survey ?

23. Following is the distribution of marks obtained by 100 students. Calculate mean , median and mode. Verify the empirical relationship also.

Marks	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99
No. of students	8	10	25	31	11	12	2	1

24. For the following distribution estimate a suitable measure of dispersion

Income (Rs)	Below 50	50-70	70-90	90-110	110-130	130-150	More than 150
No. of Persons	54	100	140	300	230	125	51

25. Lives of two models of refrigerators in a recent survey are shown in the table. What is the average age of these refrigerators model wise and also taken together? Which model is more consistent?

Life in Years	0-2	02-04	04-06	06-08	08-10	10-12
Model A	5	16	13	7	5	4
Model B	2	7	12	19	9	1

(2×15=30)