

20U310S

(Pages: 2)

Name:

Reg. No:

THIRD SEMESTER B.Com./B.B.A. DEGREE EXAMINATION, NOVEMBER 2021

(CUCBCSS-UG)

CC15U GN3 A11 (2) - BASIC NUMERICAL SKILLS

(Common Course)

(2015 to 2018 Admissions – Supplementary/Improvement)

Time: Three Hours

Maximum: 80 Marks

PART A

Answer *all* questions. Each question carries 1 mark.

1. Pictograms are shown by
a. Line b. Circles c. Pictures
2. For a skewed curve, there is a longer tail at left
a. Negatively b. Positively c. None
3. A series obtained by adding a constant number to its preceding term is
a. GP b. AP c. None
4. Bar diagrams are dimensional.
a. One dimensional b. Two c. Three
5. Histogram is useful to determine
a. Mean b. Median c. Mode
6. AM of 8,0,5 is
7. $X = 4 + 8y$ is a equation.
8. If mean = median = mode the distribution is
9. The roots of $x^2 - 1 = 0$ are
10. If A is a matrix of order 4×3 and B is a matrix of order 3×5 then the order of its product will be

(10 × 1 = 10 Marks)

PART B

Answer any *eight* questions. Each question carries 2 marks.

11. What do you mean by statistics?
12. Mention any two characteristics of statistics?
13. What is secondary data?
14. Define mean and median?
15. What is Bar diagrams?
16. Solve $x + y = 8$, $2x - y = 7$

17. Find the rate of interest per annum if the simple interest on a principal of Rs. 5000 is 800 for 4 years.
18. Calculate arithmetic mean of the Taxi fares of 5 journeys. 100, 900, 850, 110, 290
19. Find mode. 23, 35, 28, 42, 62, 53, 35, 28, 42, 35, 23, 42, 35
20. Find AM between 4 and 8.

(8 × 2 = 16 Marks)

PART C

Answer any *six* questions. Each question carries 4 marks.

21. Define Find the range and coefficient of range for the following series. 25, 32, 85, 32, 42, 10, 20, 18, 28
22. Solve $2x^2 + 8x + 8 = 0$
23. What are the merits of questionnaire?
24. Solve $2x + 4y = 14$
 $3x + 6y = 21$
25. Find the total interest and amount at the end of 5th year for Rs. 5000 at 10% p.a, simple interest?
26. Explain the uses of graphical presentation?
27. Find mean and mode.
- | | | | | | | | | | |
|----------------|---|------|-------|-------|-------|-------|-------|-------|-------|
| Age | : | 0-10 | 10-20 | 20-30 | 30-40 | 40-50 | 50-60 | 60-70 | 70-80 |
| No. of Persons | : | 15 | 30 | 53 | 75 | 100 | 110 | 115 | 125 |
28. Compare Mean, Median and Mode?

(6 × 4 = 24 Marks)

PART D

Answer any *two* questions. Each question carries 15 marks.

29. Find mean, median and mode.
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|----------------|---|------|-------|-------|-------|-------|-------|-------|-------|
| Age | : | 0-10 | 10-20 | 20-30 | 30-40 | 40-50 | 50-60 | 60-70 | 70-80 |
| No. of Persons | : | 15 | 30 | 53 | 75 | 100 | 110 | 115 | 125 |
30. Solve the system of equations with the help of Matrices.
- $$x + y + z = 7$$
- $$x + 2y + 3z = 16$$
- $$x + 3y + 4z = 22$$
31. Explain various methods of measures of central tendency (Averages).

(2 × 15 = 30 Marks)
