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Reg. No.....

Name.....

B.B.A. DEGREE (C.B.C.S.S.) EXAMINATION, SEPTEMBER 2024

First Semester

Complementary Course—FUNDAMENTALS OF BUSINESS STATISTICS

[2013—2016 Admissions]

Time : Three Hours

Maximum Marks : 80

Part A

Answer all questions.

Each questions carries 1 mark.

1. Weighted Mean.
2. Sample Design.
3. Secondary Data.
4. Dispersion.
5. Quartiles.
6. Coding of Data.
7. Variance.
8. Questionnaire.
9. Footnote.
10. Class Interval.

(10 × 1 = 10)

Part B

Answer any eight questions.

Each questions carries 2 marks.

11. Define Classification.

Turn over





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12. Given Mean = 50. Co-efficient of variation (CV) = 40 %, Skewness = 0.4. Find SD and Mode.
13. Define Mode ?
14. Compute Standard Deviation : 15, 18, 22, 26, 30 ?
15. What is Interpolation ?
16. Write a short note on Univariate Data ?
17. What is an Absolute Measure Of Dispersion ?
18. Find the Geometric Mean of 3.8 and 9 ?
19. Write a note on Stratified Sampling.
20. Find the Range and Co-efficient of range of 2, 24, 21, 45, 37, 40 and 38 ?
21. What are Stubs and Captions ?
22. Show how foot note appears in a Statistical table ?

(8 × 2 = 16)

Part C

*Answer any **six** questions.*

Each questions carries 4 marks.

23. Explain Various Errors in Statistics.
24. Statistics can prove anything'. Explain.
25. Explain the rules to be observed in constructing tables.
26. Determine mode from the following data :

Weekly Salary (Rs.)	:	15	16	17	18	19	20
No of workers	:	6	12	23	30	90	1





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27. From the following data compute arithmetic mean by direct method :

<i>Marks</i>		<i>No. of Students</i>
0 – 10	...	5
10 – 20	...	10
20 – 30	...	25
30 – 40	...	30
40 – 50	...	20
50 – 60	...	10

28. Interpolate the missing figures.

Year	:	1931	1941	1951	1961	1971
Production	:	360	?	425	450	465

29. Explain relative measures of dispersion along with its formula ?

30. Compute Median from the following data :

Mid-value	=	115	125	135	145	155	165	175	185	195
F	=	6	25	48	72	116	60	38	22	3

31. Form a frequency distribution from the following data by exclusive method taking 5 as the magnitude of class intervals :

10, 17, 15, 22, 11, 16, 19, 24, 29, 18, 25, 26, 32, 14, 17, 20, 23, 27, 30, 12, 15, 18, 24, 36,
18, 15, 21, 28, 33, 38, 34, 13, 10, 16, 20, 22, 29, 19, 23, 31.

$$(6 \times 4 = 24)$$

Turn over





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Part D

*Answer any **two** questions.*

Each questions carries 15 marks.

32. Determine Quartiles from the following distribution :

Marks	:	5 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45
No of Students	:	5	6	15	10	5	4	2	2

33. Calculate Karl Pearson's Co-efficient of skewness from the following data :

Size (above)	:	0	10	20	30	40	50	60	70
Frequency	:	150	140	100	80	80	70	30	14

34. The following data gives the weekly wages of workers in a firm, their total working hours and the average working hours per worker. Calculate the average weekly wage per worker

Wages Group (Rs.)	:	80 - 100	100 - 120	120 - 140	140 - 160	160 - 180	180 - 200
Total Hours Worked	:	168	170	225	272	126	91
Average no. of hours worked per worker	:	12	10	9	8.5	7	6.5

35. Define Average ? What are the features of an Average ? Explain the Importance and Essential Properties of a good Average ?

(2 × 15 = 30)

