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BACHELOR'S DEGREE (C.B.C.S) EXAMINATION, NOVEMBER 2024 2023 ADMISSIONS REGULAR SEMESTER III - COMPLEMENTARY COURSE & STABO3B23 - Basic Statistics

Time: 3 Hours

Maximum Marks: 80

Part A

I. Answer any Ten questions. Each question carries 2 marks

(10x2=20)

- 1. Distinguish between quantitative data and qualitative data with examples.
- 2. What are the functions of statistics?
- 3. What do you mean by distrust of Statistics?
- 4. Explain proportionate and non-proportionate stratified random samples.
- 5. How is a stratified random sample selected?
- 6. Distinguish between exclusive and inclusive classes.
- 7. What are the characteristics of a good classification?
- 8. What are the different parts of a Statistical table?
- 9. Name the different absolute measures of dispersion and their corresponding relative measures.
- 10. Show that the mean of the deviations of a set of observations from their arithmetic mean is zero.
- 11. Define co-efficient of variation.
- 12. Give the formula for finding the combined mean of 3 sets of observations.

Part B

II. Answer any Six questions. Each question carries 5 marks

(6x5=30)

- 13. Distinguish between questionnaire and schedule. In which situation is schedule advantageous over questionnaire?
- 14. Describe any two methods of collecting Primary data.
- 15. Distinguish between sampling error and non sampling error.
- 16. What are the essential qualities of a good sample?
- 17. Explain the procedure of drawing a less than ogive.
- 18. Explain the construction of a Pie-diagram.
- 19. Compare the variability in the two groups using Quartile deviation

Group I:

20 22

17

23

12

Group II:

10

20

18

15

26

20. Find Standard deviation

Marks	10-20	20-30	30-40	40-50	50-60
No. of students	12	18	29	22	19

21. The first of two groups has 100 items with a mean of 13. If the combined group has 250 items and a mean of 15.6, find the mean in the second group.

Part C

- 22. Explain the different methods of collecting primary data bringing out the advantages and limitations of each method.
- 23. Draw less than and greater than ogives for the following data and hence find the median.

class	0-20	20-40	40-60	60-80
frequency	7	16	13	4

24. Compute mean, median, mode and Standard deviation from the following data

Marks No. of students				
10-20	12			
20-30	18			
30-40	29			
40-50	22			
50-60	19			

25. Find mean, median and mode for the following data

Classes	0-50	50-100	100-150	150-200	200-250	250-300	300-350
Frequency	2	3	5	6	5	3	1