

**ANNAI VIOLET ARTS AND SCIENCE COLLEGE**  
**DEPARTMENT OF MATHEMATICS**

**CONTINUOUS INTERNAL ASSESSMENT – I (ODD SEM.)**  
**SUBJECT: STATISTICS**

**Class: II BSC COMPUTER SCIENCE**  
**Max.Marks: 50**

**Date :02/09/2022**  
**Sub. Code: SP33A**

**PART A (5 × 2 = 10 Marks)**  
**Answer any FIVE questions**

1. Write the characteristics of a good classification.
2. Mention the types of classification.
3. Sketch the subdivided bar diagram.
4. Give the formula for  $Q_1$  and  $Q_3$
5. Construct the histogram and frequency curve

class	0-5	5-10	10-15	15-20	20-25	25-30
frequency	2	7	18	10	8	5

6. Various measures of central tendency or average.
7. Write the formula for combined mean.

**PART B – (2 × 5 = 10 Marks)**  
**Answer any TWO questions**

8. Distinguish between classification and tabulation
9. Trace a percentage bar diagram

Expenditure	Wages	Material	Taxation	Profits	Administration
companyA	250	220	360	130	40
Company B	300	270	250	150	30

10. Compute mean for the following data

Class intervals	0-10	10-20	20-30	30-40	40-50	50-60
frequency	5	10	25	30	20	10

**PART C – (3 × 10 = 30 Marks)**  
**Answer ALL questions**

11. Briefly explain about the methods of collection of primary data.

12. Determine the median using ogive for the following

Weight in kg	30-34	35-39	40-44	45-49	50-54
students	6	8	12	9	5

13.(a) Draw a pie diagram to represent the following population in a town.

Males	Females	Girls	Boys	Total
2000	1800	4200	2000	10000

(b) Sketch a histogram and frequency polygon for the following distribution

Marks	21-27	28-34	35-41	42-48	49-55	56-62	63-69
No.of students	2	3	10	18	15	5	6

Prepared by,

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