

## Faculty of Commerce

**B.Com. II-Year, CBCS - III Semester Backlog Examinations -June/July, 2022****(For All Streams of B.Com)****PAPER: Business Statistics-1**

Time: 3 Hours

Max Marks: 80

**Section-A**I. Answer any *five* of the following (5x4=20 Marks)

1. Write the essentials of a Questionnaire.
2. Pictogram
3. The mean height of 25 male workers in a factory are 61 inches and the mean height of 35 female workers in the same factory is 58 inches. Find the combined mean height of 60 workers in the factory
4. Find the standard deviation CV=80%, mean =100
5. Given correlation coefficient=0.9173, Number of pairs=10, calculate Probable error and standard error.
6. Find the quartile deviation from the following data  

Roll No.	1	2	3	4	5	6	7
Marks	30	42	60	18	45	24	75
7. What is kurtosis
8. What are primary data and secondary data.

**Section-B**

II. Answer the following questions (5x12=60 Marks)

9. (a) Discuss the essentials of a good questionnaire  
(OR)  
(b) Explain the scope and limitations of statistics
10. (a) Define Graph. Explain the importance of Graphs  
(OR)  
(b) Name and discuss about various two dimensional diagrams.
11. (a) Calculate the mean from the following  

X	: 150	152	156	160	161
F	: 8	6	7	5	3

  
(OR)  
(b) Calculate Mode from the following data  

Size	: 0-5	5-10	10-15	15-20	20-25	25-30	30-35
Frequency	1	2	10	4	10	9	2
12. (a) Find the Quartile deviation and its coefficient from the following data  

Marks:	10	20	30	40	50	60
No. of students	5	8	16	9	7	2

  
(OR)  
(b) Calculate Karl Pearson co-efficient of Skewness from the following  

Marks	: 0-10	10-20	20-30	30-40	40-50	50-60	60-70
No students	: 12	28	40	60	32	18	10
13. (a) Calculate Pearson's correlation co-efficient for the following data:  

Price in Rs:	22	24	26	30	32	36	38	40	42
Demand in units:	50	45	44	38	38	34	35	32	30

  
(OR)  
(b) What is Correlation analysis? What are its uses?

\*\*\*\*\*

## Faculty of Commerce

## B.Com. II-Year, CBCS - III Semester Regular Examinations –Jan, 2023

(For All Streams of B.Com)

## PAPER: Business Statistics-1

Time: 3 Hours

Max Marks: 80

## Section-A

I. Answer any five of the following questions

(5x4=20 Marks)

1. Define Statistics
2. Explain Histogram
3. Define weighted averages
4. What about Absolute and Relative measures
5. Define Correlation.
6. Prepare line diagram for following data:-

Player No	1	2	3	4	5	6
Heights in cms.	192	165	171	189	150	168

7. Calculate 3<sup>rd</sup> Decile and 8<sup>th</sup> Decile from the following data:-  
8,7,15,25,11,12,9,7,5
8. Find the range and its coefficient from the following data:

Rs.	22	35	32	45	42	48	39
-----	----	----	----	----	----	----	----

## Section-B

II. Answer the following questions

(5x12=60 Marks)

9. (a) Explain the importance and Limitations of the Statistics.

(OR)

(b) What is Statistical Investigation? Describe the stages of Statistical Investigation

- 10.(a) Define Graph? What are the techniques of construction of Graphs?

(OR)

(b) Birth rate of State is given below. Present it by Simple Bar Diagram.

Period	1931-40	1941-50	1951-60	1961-70	1971-80	1981-90
Birth Rate	46	44	40	38	41	35

- 11.(a) Explain uses and limitations of median.

(OR)

(b) Calculate Arithmetic Mean for the following data:-

Income(Rs.)	Below 10	10-20	20-30	30-40	40-50	50-60	Above 60
No. of Persons	5	2	3	10	3	2	5

- 12.(a) Define Dispersion? Explain its Significance and Characteristics.

(OR)

(b) Find out Bowley's coefficient of Skewness from the following data:-

X	7	8	9	10	11	12	13	14
f	8	20	35	40	32	25	18	22

- 13.(a) Explain various types of correlation.

(OR)

(b) The following data provide the ranks of 10 students in two subjects.  
Calculate Rank Correlation.

Accountancy	9	6	1	2	3	7	10	5	8	4
Statistics	1	5	8	2	6	7	10	4	9	3

\*\*\*\*\*

## Faculty of Commerce

## B.Com. II-Year, CBCS - III Semester Backlog Examinations –June, 2023

(For All Streams of B.Com)

## PAPER: Business Statistics-1

Time: 3 Hours

Max Marks: 80

## Section-A

- I. Answer any five of the following questions (5x4=20 Marks)
1. What are the essentials of sampling?
  2. Explain in brief the multiple Bar-diagram
  3. Discuss the merits and limitations of mode.
  4. Explain the need for measurement of dispersion?
  5. Define Probable error.
  6. Given  $Z=40$  median=41 find mean
  7. Find out Range and coefficient of range  
3, 7, 21, 24, 37, 40, 45
  8. Calculate probable Error (PE) when  $r=0.8$  and  $N=7$

## Section-B

- II. Answer the following questions (5x12=60 Marks)

9. (a) What is a secondary source? What are the chief sources of Secondary Data?

(OR)

- (b) Write about origin and growth of statistics.

- 10.(a) Describe the general rules of graphic presentation.

(OR)

- (b) Draw a multiple bar-diagram to represent the following data

Year	Sales (000 Rs)	Gross profit (000 Rs)	Net Profit (000 Rs)
2003	300	90	30
2004	360	120	45
2005	390	135	75
2006	450	150	75
2007	500	200	90

- 11.(a) Discuss the merits and limitations of Central tendency?

(OR)

- (b) Find the mean of the following data.

Class	50-59	40-49	30-39	20-29	10-19	0-9
Frequency	1	3	8	10	15	3

- 12.(a) Define Skewness and explain its salient features.

(OR)

- (b) Calculate combined standard deviation from the following.

	Group A	Group B
Mean	113	120
Standard Deviation	6.5	8.2
Number (n)	50	60

- 13.(a) Define regression and discuss its utility?

(OR)

- (b) Calculate Karl Pearson's Coefficient of correlation for the following series:

Price (X)Rs	11	12	13	14	15	16	17	18	19	20
Demand (Y) tonnes	30	29	29	25	24	24	24	21	18	16

\*\*\*\*\*