

BC/C5

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(FYUGP)

(3rd Semester)

COMMERCE

(Major)

Paper Code : BC/C5

(**Business Statistics**)

Full Marks : 75
Pass Marks : 40%

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

- 1 (a) Define statistics. Explain the functions
of statistics. 5+10=15

Or

- (b) Explain the various methods of
collecting primary and secondary data. 8+7=15

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(Turn Over)

(2)

2. (a) Calculate mean and median from the following : 15

Marks	0-10	10-20	20-30	30-40	40-50	50-60	60-70
No. of Students	5	12	30	45	60	35	21

Or

- (b) Explain the various types of average. Also give its merits and limitations. 7+8=15

3. (a) Calculate Karl Pearson's coefficient of correlation from the following data :

Price (in ₹)	4	5	7	10	4
Supply (in ₹)	10	12	13	15	20

Interpret your result. 13+2=15

Or

- (b) Explain the uses of regression analysis. Distinguish between correlation and regression analysis. 7+8=15

- 4 (a) Construct index number of price from the following data by applying : 15
- (i) Laspeyres' method
 - (ii) Paasche's method

(3)

(iii) Bowley's method

(iv) Fisher's ideal method

Commodity	2021		2022	
	Price	Quantity	Price	Quantity
A	2	8	4	6
B	5	10	6	5
C	4	14	5	10
D	2	19	2	13

Or

(b) Explain the various components of time series. 15

5. (a) Explain the concept and importance of probability. 7+8=15

Or

(b) A bag contains 30 balls numbered from 1 to 30. One ball is drawn at random. Find the probability that the number of the balls drawn be a multiple of—

(i) 5 or 7

(ii) 3 or 7

15
