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**Second Semester B.B.A. Degree Examinations,
May/June 2019**

(CBCS)

Paper 2.4 – QUANTITATIVE METHODS FOR BUSINESS – II

Time : 3 Hours]

[Max. Marks : 70

Instructions to Candidates : Answers should be written in English only. Calculators are allowed.

SECTION – A

1. Answer any **FIVE** sub questions. Each sub-question carries **2** marks :
(5 × 2 = 10)
- What is secondary data?
 - What are ogive curves?
 - What is probable error?
 - State any two merits of arithmetic mean.
 - Index numbers are called “Economic Barometers”. Why?
 - Write the formula to calculate Spearman’s Rank Correlation.
 - Mention any two characteristics of a good measure of dispersion.



SECTION – B

Answer any **THREE** of the following. Each question carries **6** marks. (3 × 6 = 18)

- Explain any three limitations of Statistics.
- What is tabulation? Explain any four parts of a statistical table.

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4. Tabulate the following data :

In 2017, out of the total 1,750 workers of a factory 1,250 were members of trade union. The number of women employed was 200 of which 175 did not belong to a trade union.

In 2018 the number of union workers increased to 1,580 of which 1,290 were men. On the other hand, the number of non-union workers fell down to 208 of which 180 were men.

5. State any three merits and demerits of arithmetic mean.

6. Calculate median from the following data :

Wages (Rs.)	100-110	110-120	120-130	130-140	140-150
Frequency	4	6	20	32	33

SECTION - C

Answer any **THREE** of the following. Each question carries **14** marks.

(3 × 14 = 42)

7. Compute Fisher's Ideal Index and test whether it satisfies the reversibility tests.

Commodity	Base Year		Current Year	
	Price	Quantity	Price	Quantity
P	15	25	25	20
Q	20	60	60	35
R	15	60	50	48
S	10	10	20	13
T	30	16	40	16



8. Draw Ogive curves from the following data and locate median graphically. Verify the results by actual calculation.

C.I	0-50	50-100	100-150	150-200	200-250
f	10	30	50	40	20

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9. Determine the two regression equations for the following data. Predict the value of Y when $X = 50$ and the value of X when $Y = 25$.

X 40 32 38 42 36 46

Y 30 35 40 36 28 35

10. An agent obtained samples of bulbs from 2 companies. He had them tested for durability and got the following results :

Durability (0000 hrs) 17-19 19-21 21-23 23-25

Company A 100 160 260 80

Company B 30 420 120 30

Which company bulbs are more uniform?

11. Calculate Karl Pearson's coefficient of correlation from the following data using 44 and 26 as assumed means for X and Y respectively.

X 43 44 46 40 44 42 45 42 40 42 57 48

Y 29 31 19 18 19 27 27 29 41 30 26 10

