



K18U 2219

Reg. No. : .....

Name : .....

I Semester B.Com. Degree (CBCSS – Reg./Supple./Improv.)

Examination, November 2018

Complementary Course

1C01COM : BUSINESS STATISTICS

(2014 Admn. Onwards)

Time : 3 Hours

Max. Marks : 40

PART – A

I. Answer **all** questions. **Each** carries  $\frac{1}{2}$  marks.

- 1) \_\_\_\_\_ is a positional average.
- 2) The value of the variable which occurs most frequently in a distribution is called the \_\_\_\_\_
- 3) The AM of 12, 18, 14, 15, 16 is \_\_\_\_\_
- 4) \_\_\_\_\_ is the difference between the greatest (largest) and the smallest of the given values. (4x $\frac{1}{2}$ =2)

PART – B

II. Answer **four** questions. **Each** carries **one** mark.

- 5) What is harmonic mean ?
- 6) What is standard deviation ?
- 7) What do you mean by tabulation ?
- 8) Define statistics.
- 9) What is dispersion ?

10) Find mode

|                     |   |   |    |    |    |    |    |    |
|---------------------|---|---|----|----|----|----|----|----|
| <b>Size</b>         | : | 7 | 9  | 13 | 19 | 24 | 28 | 32 |
| <b>No. of items</b> | : | 4 | 16 | 35 | 29 | 31 | 18 | 10 |

(4x1=4)

P.T.O.



## PART – C

III. Answer **any six** questions (**not exceeding one** page). **Each** carries **three** marks.

- 11) What is time reversal test and factor reversal test ?
- 12) What do you mean by frequency distribution ?
- 13) What are the important functions of statistics ?
- 14) What are the essentials of a good average ?
- 15) Find Harmonic mean from the following marks obtained by five students in statistics 10, 15, 20, 25, 30.
- 16) In a moderately asymmetrical distribution Mean is 24.6 and Median 25.1. Find the value of Mode.
- 17) Calculate Standard Deviation of 42, 48, 50, 62, 65.
- 18) Find Range and Coefficient of Range from the following data.  
28, 32, 85, 34, 43, 12, 10, 18, 29.

(6×3=18)

## PART – D

IV. Answer **any two** questions. **Each** carries **eight** marks.

- 19) What is index numbers ? Discuss the problems in the construction of index numbers.
- 20) From the data given below calculate Laspeyer's and Pasche's index numbers and test whether they satisfies time reversal test.

| Commodity | 2013  |          | 2017  |          |
|-----------|-------|----------|-------|----------|
|           | Price | Quantity | Price | Quantity |
| A         | 10    | 4        | 12    | 5        |
| B         | 8     | 3        | 10    | 4        |
| C         | 5     | 8        | 5     | 7        |
| D         | 12    | 2        | 12    | 3        |
| E         | 6     | 9        | 7     | 8        |

21. The following data obtained from the budgets of a middle class family in Kannur city.

| Expenses on  | Food | Rent | Clothing | Fuel | Misc. |
|--------------|------|------|----------|------|-------|
|              | 35%  | 15%  | 20%      | 10%  | 20%   |
| Price (2013) | 145  | 30   | 65       | 30   | 40    |
| Price (2016) | 210  | 65   | 90       | 50   | 30    |

What changes the cost of living of 2016 as compared with 2013 are seen ?

(2×8=16)