US – 462

II Semester B.Com. Examination, May 2017
(CBCS) (Freshers + Repeaters) (2014-15 and Onwards)
COMMERCE
Paper – 2.6 : Quantitative Analysis for Business Decisions – I

Time : 3 Hours | Max. Marks : 70

***Instruction** : Answer should be written **either completely** in **English** or **Kannada**.*

SECTION – A

Answer **any five** sub-questions from this Section. **Each** sub-question carries **two** marks. **(5×2=10)**

1. a) State any two limitations of statistics.
   b) What is a histogram ?
   c) Write any two objectives of tabulation.
   d) What is meant by skewness ?
   e) How do you calculate 'Mode' in case it is ill-defined ?
   f) If variance = 36, $\sum x = 150$, N = 10, find c.v.
   g) What do you mean by Time Reversal Test (TRT) ?

SECTION – B

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

2. Form a continuous frequency table. The marks scored by 50 students in an examination are given below, taking class interval of 10-20, 20-30 etc. Prepare frequency table and calculate Median :

48	30	31	39	18	54	33	10	29
62	38	41	43	51	37	71	62	34
55	29	43	64	43	52	64	44	
55	45	22	32	21	59	61	22	
74	19	46	73	33	85	85	51	
63	58	27	44	32	31	47	18	

P.T.O.

3. Compute Mean Deviation and its co-efficient about mean from the following data :

   45 110 78 70 52 75 83 64 98

4. Calculate Arithmetic Mean.

Marks :	0 - 10	10 - 30	30 - 60	60 - 100
Students :	7	13	22	8

5. The Mean and Standard Deviation of two brands of bulbs are given below :

Brand	**A**	**B**
Mean life	1000 hrs	820 hrs
S.D.	100 hrs	65 hrs

   Which category of bulb has more consistency in its life ?

6. Calculate Consumer Price Index from the following data :

Commodity	p_0	p_1	**W**
A	2	4	2
B	4	6	4
C	6	6	3
D	2	3	1
E	1	1	1

SECTION – C

Answer **any three** questions. **Each** question carries **fourteen** marks. **(3×14=42)**

7. Draw an ogives (lessthan and morethan), calculate and locate median from the following data :

Marks :	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60	60 - 70
No. of Students :	3	8	12	20	24	12	7

8. Compute Quartile Deviation and its co-efficient from the following data :

X :	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60	60 - 70	70 - 80
F :	12	25	55	120	60	30	13

9. You are given below the daily wages paid to workers in two factories X and Y. Find:

   a) Which factory pays higher average wages ?

   b) Which factory pays more total wages ?

   c) In which factory are wages more variable ?

Daily wages ₹ :	50 - 60	60 - 70	70 - 80	80 - 90	90 - 100
No. of workers :					
Factory X :	30	60	90	40	20
Factory Y :	40	70	100	20	10

10. Determine the Fisher's ideal index and show how it satisfies the TRT and FRT :

Items :	M	N	O	P	Q
2015					
Price ₹ :	20	50	40	60	10
Quantity :	8	10	5	20	6
2016					
Price ₹ :	30	40	50	60	40
Quantity :	10	8	12	16	10

11. Calculate Median and Mode of the following data :

X : less than	10	20	30	40	50	60	70	80
F :	4	16	40	76	96	112	120	125