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SA – 746

II Semester B.Com. Examination, April/May 2015
(CBCS) (Freshers)
(2014-15 and Onwards)
COMMERCE

Paper – 2.6 : Quantitative Analysis for Business Decisions – I

Time : 3 Hours

Max. Marks : 70

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

SECTION – A

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

1. a) State any four functions of statistics.
- b) Identify whether the following are statistical statements :
 - i) 'The average weight of the students of a college is 50 kgs.'
 - ii) 'Price of a book is Rs. 50.'
- c) Define 'dispersion'.
- d) If $Z = 38.82$ and $M = 40$ find \bar{X} .
- e) What do you mean by TRT ?
- f) If variance = 36, $\sum X = 150$ and $N = 10$, find CV.
- g) What is meant by skewness ?

SECTION – B

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

2. Form a frequency distribution from the following data by exclusive method taking four as the width of the class :

10	17	15	22	11	16	19	24	29	18
25	26	32	14	17	20	23	27	30	12
15	18	24	36	18	15	21	28	33	38
34	13	10	16	20	22	29	19	23	31

P.T.O.



3. Calculate simple mean and weighted mean for the following data :

Subject	Marks	Weights
Kannada	60	1
English	75	2
Science	63	1
Mathematics	59	3
Social Science	53	3

4. Find the co-efficient of Mean deviation from the following data taking median as the base.

Daily Wages (Rs.)	No. of Workers
Less than 60	8
" 70	24
" 80	56
" 90	96
" 100	136
" 110	178
" 120	191
" 130	200

5. Construct the consumer price index number by using aggregate expenditure method from the following data :

Commodities	Quantity Consumed in 2010	Price (Rs.) 2010	Price (Rs.) 2014
A	12	50	60
B	8	40	45
C	4	70	80
D	9	70	90
E	5	20	40
F	2	200	200



6. In a sample study about reading newspaper of people of a city, the following information was received. Present the data in a tabular form :

Males : 65%

Females : 35%

Females not reading newspaper : 25%

People reading newspaper : 70%.

SECTION – C

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

7. Find mean, median and mode from the following data :

Profits (in lakhs)	4-7	8-11	12-15	16-19	20-23	24-27	28-31	32-35	36-39
No. of Companies	6	10	18	30	15	12	10	6	2

8. From the prices of shares of X and Y company given below, state which company's share prices are more variable.

Share Prices of X Co.	55	54	52	53	56	58	52	50	51	59
Share Prices of Y Co.	108	107	105	105	106	107	104	103	104	101

9. Calculate Karl Pearson's co-efficient of skewness for the following data :

Wages (Rs.)	400-500	500-600	600-700	700-800	800-900	900-1000	1000-1100
No. of Workers	8	20	36	24	16	14	2



10. Calculate Fisher's Ideal Index Number from the following data and prove that it satisfies both the reversibility tests.

Items	2010		2014	
	Price (Rs.)	Quantity	Price (Rs.)	Quantity
A	25	110	32	150
B	82	95	94	120
C	125	30	143	30
D	92	185	89	230
E	29	200	31	235
F	110	20	100	22

11. Draw 'less than and more than ogive curves' for the following frequency distribution and obtain median graphically. Verify the result.

C.I.	0-20	20-40	40-60	60-80	80-100	100-120	120-140	140-160
f	5	12	18	25	15	12	8	5