



23

II Semester B.Com. Examination, May 2016
(2012-13 and Onwards) (Repeaters)

COMMERCE

Paper – 2.6 : Quantitative Analysis for Business Decisions – I

Time : 3 Hours

Max. Marks : 100

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

SECTION – A

1. Answer **any ten** sub-questions. **Each** sub-question carries **two** marks. (10×2=20)
- Define statistics in plural sense.
 - What are the methods of collecting primary data ?
 - Give any four general rules of construction of diagrams.
 - What is census method of data collection ?
 - Mention any four limitations of statistics.
 - What is mean deviation ?
 - What is base year ?
 - Give the meaning of Factor Reversal Test.
 - What is qualitative classification ?
 - Find the value of median, when mean = 66 and mode = 80.
 - Define index number.
 - What is ogive curve ?



SECTION – B

Answer **any four** questions. **Each** question carries **eight** marks.

(4×8=32)

2. Present the following data by means of sub-divided Bar-diagram :

Year	Boys	Girls	Total
2011	800	200	1000
2012	300	50	350
2013	400	20	420
2014	250	25	275

3. Following are the runs scored by two Batsmen 'P' and 'Q'.

Batsmen 'P' : 60 80 70 40 30 50 20

Batsmen 'Q' : 60 80 50 40 20 30 50

Find :

- 1) Who is a better run getter ?
- 2) Which Batsman is more consistent ?

4. Calculate Q.D. and its coefficient for the following data :

Value : 10 20 30 40 50 60

Frequency : 28 36 24 32 40 16

5. Construct the consumer price index number for 2014 on the basis of 2010, from the following data using family Budget method.

Commodity	Commodity Consumed in 2010	Price (Rs.)	
		2010	2014
A	10	40	50
B	6	30	40
C	4	60	70
D	6	60	80
E	3	20	30
F	2	180	200



6. Calculate mean deviation from mean of the following data :

Wages (Rs.)	:	20	40	60	80	100	120
No. of Workers	:	5	10	15	25	10	5

SECTION - C

Answer **any three** questions. **Each** question carries **16** marks. **(3×16=48)**

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

Marks	:	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60	60 - 70	70 - 80
No. of Students	:	5	8	7	12	28	20	10	10

8. Following data represents life of two models of refrigerators A and B.

Life (No. of years)	:	0 - 2	2 - 4	4 - 6	6 - 8	8 - 10	10 - 12
Model 'A'	:	5	16	13	7	5	4
Model 'B'	:	2	7	12	19	9	1

- 1) Find the average Life of each model.
- 2) Which model has greater uniformity of Life ?

9. Compute Fisher's Ideal Index and show that it satisfies the reversibility tests :

Items	Base Year		Current Year	
	Quantity	Price	Quantity	Price
A	12	10	15	12
B	14	7	20	5
C	24	5	30	9
D	5	16	10	14

10. Calculate Karl Pearson's coefficient of skewness.

Wages paid (Rs.) (Less than)	:	20,	30,	40,	50,	60,	70,	80
No. of workers	:	10,	25,	40,	65,	80,	85,	100