

MODEL QUESTION PAPER

SECOND SEMESTER DIPLOMA EXAMINATION IN COMMERCIAL PRACTICE

TED 15 (2144)
REVISION 2015

Time 3 hours
Max marks :100

STATISTICS

PART –A (Maximum Marks -10)

I Answer the following Questions in one or two sentences ,each question carries 2 marks

- 1 Define tabulation
- 2 State two drawbacks of Mode
- 3 What do you mean by Partial correlation?
- 4 What is Factor Reversal Test?
- 5 If a sample size 22 items has a mean of 15 and other sample size 18 items has a mean of 20, find the mean of combined sample.

5*2=10

PART –B (Maximum Marks -30)

II Answer any five questions, each question carries 6 marks

- 1 Explain the various objects of classification
- 2 State the advantages of Arithmetic Mean
- 3 Distinguish between primary data and secondary data
- 4 Explain various types of measures of dispersion
- 5 Represent the following frequency table by a histogram

Marks	10-20	20-30	30-40-	40-50	50-60	60-70
No of Students	7	10	25	18	12	8

- 6 State the various methods of construction of index numbers
- 7 Calculate coefficient of Correlation

X	2	3	4	5	6	7	8
Y	4	5	6	12	9	5	4

5*6=30

PART –C (Maximum Marks -60)

Answer one full question selecting from each module, carries 15 marks each

MODULE-I

III State the functions, importance and limitations of statistics

15

OR

IV State the objects and requisites of classification

15

MODULE-II

V Find mean, median and mode from the following data.

Marks	0-10	10-20	20-30	30-40	40-50	50-60	60-70
Frequency	8	12	14	20	12	17	33

15

OR

VI For the following data calculate Mean Deviation about Mean, Standard Deviation and Coefficient of standard deviation.

Size	0-2	2-4	4-6	6-8	8-10	10-12
Frequency	20	40	60	40	20	60

15

MODULE-III

VII (a) Draw two ogives for the following data and Estimate value of Median

Marks	0-20	20-40	40-60	60-80	80-100
No of students	10	20	34	26	12

10

VII (b) Explain various types of correlation

5

OR

VIII (a) Find the co efficient of correlation between X and Y.

X	1.2	1.1	1.9	1.8
Y	15	10	20	11

10

VIII (b) Draw a frequency Curve to the following data

Marks	10-20	20-30	30-40	40-50	50-60	60-70
No of students	15	24	45	60	36	21

5

MODULE-IV

IX Calculate Weighted Index Number by 1) Laspeyer's method, paaches method 3) Bowley-Dorbish method ,4) Marshall Edgeworth method and 5) Fishers method,

product	Base price	Current price	Base qty	Current Qty
A	20	35	5	4
B	25	45	4	3
C	30	40	8	6
D	10	10	3	3

15

OR

X Explain:

- 1) Time Reversal Test
- 2) Consumer Price Index Number
- 3) Price relative method
- 4) Family budget method
- 5) Kelley's method

15

