

NEW
Part-III 3-Tier
2017

ECONOMICS

PAPER—VIII

(Honours)

(PRACTICAL)

(First Half)

Full Marks : 50

Time : 3 Hours

The figures in the margin indicate full marks

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the questions wherever necessary.

Answer any four questions : 4×10

1. Marks obtained by 40 students are given below. Draw the frequency table. 10

id	Marks	id	Marks
1	35	21	36
2	40	22	25

(Turn Over)

id	Marks	id	Marks
3	426	23	31
4	21	24	26
5	36	25	30
6	35	26	50
7	42	27	23
8	32	28	29
9	46	29	30
10	30	30	29
11	42	31	60
12	53	32	34
13	28	33	30
14	22	34	31
15	40	35	31
16	18	36	27
17	28	37	12
18	28	38	30
19	25	39	32
20	38	40	42

2. (a) Draw the histogram for the following data. 5

Marks	26-35	36-5	46-55	56-65	66-75
Frequency	3	15	56	21	12
			76-85	86-95	
			6	2	

(b) Draw a pie chart for the following data : 5

Countries	Production (1000 metric tons)
India	405
Sri Lanka	225
Japan	85
Indonesia	40
Other countries	275
Total	1030

3. Per capita expenditure (Rs.) of 20 households are given below:

388, 382, 640, 460, 423, 623, 695, 575, 677, 478, 525,
752, 494, 650, 585, 695, 752, 516, 773, 801.

Calculate Mean, Median, Mode, Standard Deviation,
Skewness, Kurtosis and Co-efficient of variation. 10

4. Given the following data on x and y ,

- (a) Draw the scatter diagram.
(b) Find the correlation coefficient between two variables.
(c) Find the regression line of consumption on income.

id	x	y	id	x	y
1	406.34	20.13	16	452.55	27.14
2	171.92	20.33	17	438.29	27.14
3	303.23	20.37	18	587.66	27.14
4	377.04	20.43	19	257.95	27.14
5	194.35	21.45	20	375.73	27.14
6	213.48	22.52	21	115.22	27.14
7	290.87	22.55	22	135.98	27.14
8	259.61	22.86	23	219.34	27.14
9	323.71	24.20	24	124.96	27.14
10	275.02	24.39	25	187.05	27.14
11	110.71	24.42	26	243.92	27.14
12	359.19	25.20	27	267.43	27.14
13	201.51	25.50	28	238.71	27.14
14	460.36	26.61	29	295.94	27.14
15	447.76	26.70	30	317.78	27.14

4+3+3

5. (a) Calculate mean and standard deviation for the following sample. 2+2

- (b) Test $H_0 : \mu = 12$ against alternative Test $H_0 : \mu \neq 12$ for the sample. 6

x
7.9
8.6
11.8
12.6
10.4
9.1
13.6
6.4
8.3
12.1
10.5
13.5
14.1
13.1
12.8

6. Per capita SDP (Rs.) of two states are given below :

Gujarat :	1282	1394	1626	1723	1973	2140
	2393	2495	2847	3158		
West Bengal :	1626	1683	1782	1900	2020	2178
	2348	2443	2632	2880		

- (a) Using F-test examine whether the variation in SDP of two states are equal or not.
- (b) Test (by t-test) Whether SDP of West Bengal is significantly greater than the SDP of Gujarat.

5+5

[Viva-voce — 10]
