NEW

Part-III   3-Tier

2019

ECONOMICS

(Honours)

PAPER—VIII

(PRACTICAL)

(First Half)

Full Marks : 50

Time : 3 Hours

The figures in the right-hand 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

(Detailed calculations are to be shown in excel)

1. Given below are the marks obtained in Economics by a batch of 30 students :

43	38	55	51	52	53
53	65	64	81	62	57
64	74	78	44	42	48
78	48	54	55	57	80
42	52	67	65	59	75

(a) Construct a frequency disribution table with class interval 5.

(b) Represent the data in Bar Diagram and a Frequency Polygon.

(c) Draw up the ogives of both less than an greater than types.   3+3+4

2. (a) Compute the mean, median and mode for the following frequency distribution :   4+3+3

Paddy Production (in Quintal)		Number of Farmers
Lower Class Limit	Upper Class Limit	
15	19	37
20	24	81
25	29	43
30	34	24
35	44	9
45	59	6

3. Bivariate Data on Height and Weight of 16 Students are given below : 5+5

Height (Inches)	Weight(lbs)	Height (Inches)	Weight(lbs)
68	135	66	131
64	127	70	149
69	149	70	130
62	133	59	118
67	145	72	139
63	114	71	136
67	152	67	136
68	157	68	155

(a) Draw a scatter diagram.

(b) Find the correlation coefficient between height and weight.

(c) Estimate the regression equation of weight on height and find out the value of weight of a student whose height is 65 inches. 3+3+4

4. (a) Following are the information of 20 sample households. Estimate the consumption function and find out marginal propensity to consume (MPC). 10

Per capita per day food exp. (Rs.) :	18	11	13	18	15	13	14	12	13	11
Per capita Income (Rs.) :	22	16	17	19	22	36	19	18	12	13

Per capita per day food exp. (Rs.) :	9	18	13	9	13	7	12	7	12	19
Per capita Income (Rs.) :	19	17	16	18	18	12	18	12	13	19

(b) From the estimated consumption function find out the average per capita per day food expenditure for these 20 households.   7+3

5. The average annual growth rates of SDP for two periods are given below :

State	Growth Rate of SDP	
	2004-05 to 2009-10	2000-10 to 20011-12
Andhara Pradesh	8.6	3.1
Arunachal Pradesh	5.4	1.6
Assam	4.0	2.3
Bihar	6.0	4.4
Delhi	11.2	3.7
Goa	8.1	4.6
Gujarat	10.2	3.2
Haryana	8.9	2.8
Himachal Pradesh	5.9	2.6
Karnataka	7.3	2.4
Kerala	8.9	3.1
Madhya Pradesh	7.0	3.1
Maharashtra	10.0	3.9
Manipur	6.6	2.3
Meghalaya	5.4	2.1
Odisha	5.9	1.1
Punjab	6.6	1.9
Rajashthan	6.0	3.6
Tamil Nadu	10.1	2.9
Tripura	8.0	2.7
Uttar Pradesh	6.2	2.2
West Bengal	6.0	2.7

(a) Using F-test examine whether the variation of growth rates across states during two perios are equal or not.

(b) Test (by t-test) whether the growth rate of SDP significantly declined during 2011-12 compared with 2004-05.   5+5

6. Find the first four central moments and meaures of skewness and kurtosis from te following frequency distribution

X:	21 – 24	25 – 28	29 – 32	33 – 36	37 – 40	41 – 44
F:	40	90	190	110	50	20

10

[Viva-Voce — 10 Marks]

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