2018

M. Com.

3RD Semester Examination

RESEARCH METHODOLOGY

PAPER – COM – 302

Full Marks : 25

Time : 1 Hour

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.

1. Answer any two questions of the following: 5 X 2

(a) What are the major components of a good research? Explain with an example.

(b) What is a bibliography? What is its purpose?

(c) Distinguish between conceptual research and empirical research.

(d) Discuss briefly the steps involved in conducting a literature review.

2. Answer any one questions of the following: 10 X 1

(a) i) State the features of good questionnaire.
ii) Point out the merits and demerits of secondary data. 5+5

(b) What do you mean by Research Report? State the characteristics of a good research report. 3+7

(*Internal Assessment :5 marks*)

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UNIT II- PRACTICAL

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Answer any two questions of the following: **10X 2**

1. Import the data set from MS-Excel to Eviews statistical package and check the stationery properties of data series using Phillips-Perron Test (PP) and determine the long run co-movement between Foreign Direct Investment (FDI) to India and Index of Industrial Production (IIP) using Johansen cointegration test.

Months	IIP	FDI
2018:08(AUG)	127.4	2432
2018:07(JUL)	125.7	3035
2018:06(JUN)	127.5	2974
2018:05(MAY)	129.6	4596
2018:04(APR)	122.6	5432
2018:03(MAR)	140.3	3214
2018:02(FEB)	127.4	3077
2018:01(JAN)	132.3	2314
2017:12(DEC)	130.6	3285
2017:11(NOV)	125.8	1553
2017:10(OCT)	122.5	1148
2017:09(SEP)	123.1	2031
2017:08(AUG)	122.1	7919
2017:07(JUL)	118.0	4742
2017:06(JUN)	119.3	3032
2017:05(MAY)	124.8	3974
2017:04(APR)	117.3	3142

Turn over

2017:03(MAR)	133.2	2950
2017:02(FEB)	119.2	1712
2017:01(JAN)	123.1	4478
2016:12(DEC)	121.7	3006
2016:11(NOV)	115.9	4336
2016:10(OCT)	120.3	5854
2016:09(SEP)	118.2	5133

2. Two laboratories A & B carry out independent estimates of fat content in ice-cream made by a firm . A sample is taken from each batch, halved and the separated halves send to the two laboratories. The fat content obtained by the laboratories is recorded below

Batch No	Fat Content	
	Lab –A	Lab –B
1	7	9
2	8	8
3	7	8
4	3	4
5	8	7
6	6	7
7	9	9
8	4	6
9	7	6
10	8	6
11	6	8
12	9	10
13	3	5
14	11	10
15	7	8
16	13	11
17	5	7
18	9	10
19	10	10
20	12	13

Calculate the average fat content in ice-cream obtained by the two laboratories for different batches. Also calculate the standard deviation of the fat content in ice-cream.

Are there any significant differences between the mean fat content obtained by the two laboratories A & B? (4+ 6)

Continued.

3. Following are the data of real Consumption Expenditure (C) , Real Personal Income (Y_d) , Real Wealth (W) and Real Interest Rates (I) for united sates.

Year	**C ($)**	**Y_d**	**W**	**I**
1991	4466.6	5033.0	24050.2	1.803
1992	4594.5	5189.3	24418.2	1.007
1993	4748.9	5261.3	25092.3	0.625
1994	4928.1	5397.2	25518.6	2.206
1995	5075.6	5539.1	27439.7	3.333
1996	5237.5	5677.7	29448.2	3.083
1997	5423.9	5854.5	32664.1	3.120
1998	5683.7	6168.6	35587.0	3.548
1999	5968.4	6320.0	39591.3	3.245
2000	6257.8	6539.2	38167.7	3.576

a. Find out the descriptive statistics of the variables.

b. Show the bi-variate correlation between the variables together with the significance level.

c. If Y_d , W, I are the independent variables , check whether there is any multi-collinearity problem.

(4 + 3 + 3)

4. Following data are for the manufacturing sector of 10 sates of USA for the year 2005

State	Output (Thousand $)	Labour Input (Thousand $)	Capital Input (Thousand $)
Alaska	38372	424	2689
Florida	47289	471	2761
Hawaii	1809	17	146
Kansas	22826	246	1595
Coloredo	19462	180	1790
Calfornia	217546	1809	13554
Arizona	23736	206	2308
Louisiana	69610	216	4726
Georgia	63015	659	3540
Illinois	105324	963	5870

a. Using regression analysis shows the effect of input on the output.

b. Also show the results of ANOVA (7 + 3)

(*Viva Voice :5 marks*)