

PG Odd Semester (CBCS) Exam., December—2018

ECONOMICS

(3rd Semester)

Course No. : ECOCC-303

(For Group—C Students)

(Computer Application in Economics)

(Practical)

Full Marks : 25

Pass Marks : 10

Time : 2 hours

The figures in the margin indicate full marks for the questions

Answer **three** questions, selecting **one** from each Unit

UNIT—1

1. Using 'SPSS.sav' data file (provided in the desktop), solve the following problems :
2+4+4=10

(a) Make a classification of the variables available in the data file in your answer-script.

(b) Compute a new variable called 'concat' from the existing variable 'consumption' with the following category :

Below 20, 20 to 50, 51 to 74, above 74

Prepare a cross tabulation by using 'concat' and 'job satisfaction' variables. Save the cross tabulation in MS-Word as '1b'.

(c) Draw a bar diagram to show the relationship between 'cast' and 'family consumption expenditure'. Do not include individuals who are graduate in the analysis. Save your diagram in MS-Word as '1c'.

2. (a) Suppose an investment project is expected to yield returns in different time periods as Y_0, Y_1, Y_2, Y_3 and Y_4 . On the other hand, the project involves cost up to second year which is given by C_0, C_1 and C_2 . Write the equations for the present value of expected returns and costs in MS-Word and save it as '2a'. 5

(b) Open the file named 'Trade.xlsx' provided on your desktop. Calculate the following in MS-Excell :

- (i) Total volume of trade
- (ii) Trade balance

(3)

(iii) Exports as a percentage of imports

(iv) Trade as a percentage of GDP

Save your result in the form of a table in MS-Word as '2b'.

5

UNIT—2

3. Using "regression.gdt" data file (provided on the desktop), solve the following problems :

2+4+4=10

- (a) Estimate the parameters of the following model and save the output in MS-Word as '3a' :

$$IC_i = \beta_0 + \beta_1 LT_i + \beta_2 P_i + \beta_3 UR_i + U_i$$

where

IC Incidence of crime per lakh population

LT Literacy rate

P Number of policeman per lakh population

UR Unemployment rate

- (b) Interpret the estimated parameters of the model in your answer-script.
- (c) Does the estimated model suffer from heteroscedasticity? Conduct appropriate test and justify your answer in the answer-script.

(4)

4. (a) The percentage of population living below poverty line in the rural and urban areas of Assam in 2009–2010 was 39.9 and 26.1 respectively. In 2011–2012, the same changed to 33.89 and 20.49 respectively. On the other hand, the percentage of population in rural and urban India in 2009–2010 was 33.8 and 20.9 respectively, which decreased to 25.7 and 13.7 respectively in 2011–2012.

Show the above information in MS-Word in the form of a table. Save the table as '4a'.

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- (b) Open the file named 'Document.docx' saved on your desktop. Edit the document as follows :

(i) Insert page number

(ii) Font type : Times New Roman

(iii) Font size : 12

(iv) Heading of each section : Bold

(v) Sub-heading of each section : Italics

(vi) Line spacing : 1.5 point

Save your edited document as '4b'.

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(5)

UNIT—3

5. Draw an isoquant map from the following production function, assuming $Q = 200, 230$ and 250 :

$$Q = AL^{0.4}K^{0.6}$$

Save your map in MS-Word as '5'. 5

6. Open the file named 'population.xlsx' saved on your desktop. Draw a suitable diagram to show the share of each state in the total population of North-East India. Save your diagram in MS-Word as '6'. 5
