PG Odd Semester (CBCS) Exam., December—2017

ECONOMICS

(3rd Semester)

Course No. : ECOCC–303 (E)

(For Group—E 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, taking **one** from each Part

PART—1

1. *(a)* Write the difference between growth and development using MS-Word. Format the document so created as per the following specifications : 3+2=5

   (i) Line spacing = 1·5

(2)

   (ii) Font type = Arial

   (iii) No spacing before and after paragraph

   (iv) Margins (all around) = 1·3 inch (or 3·3 cm)

   Save the file as 'E1a'.

   (b) Using 'Rice.xlsx' data set (provided on the desktop), calculate the shares of North-Eastern States in total rice production of India. Show how their relative shares have changed during the given period using appropriate diagram. Save your answer as 'E1b'. 3+2=5

2. *(a)* Using MS-Word, write the equations of proportional and non-proportional consumption functions. Also show these functions with the help of diagrams. Save your answer as 'E2a'. 2+(2+2)=6

   (b) The decadal growth rates of rural population in Cachar, Karimganj and Hailakandi during 2001–11 were 14·28%, 19·79% and 22·53% respectively. The corresponding figures for urban population were 56·65%, 48·54% and 9·2% respectively.

   Show the above information with the help of a table. Save your answer as 'E2b'. 4

(3)

PART—2

3. Using 'SPSS.sav' data file (provided on the desktop), solve the following problems :

   (a) How many nominal, ordinal and scale variables are there in the file? State in plain paper. 2

   (b) Compute a variable as 'carmaincal' from 'carmain' with the following categories :

   > Below 10, 11 to 25, 26 to 39, above 40

   Draw a frequency distribution of the variable you created. Save your results as 'E3b' in MS-Word. 3

   (c) Draw a bar diagram to show the relationship between 'primary vehicle price category' and 'car maintenance expenditure' only for non-Muslim individuals. Save your diagram as 'E3c' in MS-Word. 5

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

   (a) Estimate the parameters of the model and save the output as 'E4a' in MS-Word

   $$GE_t = \beta_0 + \beta_1 Tax_t + e_t$$

   where

   > GE = Government expenditure

   > Tax = Collection of tax revenue. 3

(4)

   (b) Interpret the estimated parameters of the model in plain paper. 3

   (c) Conduct appropriate test to examine if the model experiences structural shift in the year 1991. Save your result in MS-Word as 'E4e'. 2

   (d) Interpret your result obtained in 4(c) in plain paper. 2

PART—3

5. Using MS-Excel, draw an indifference curve for the following utility function assuming $U = 200$ and $A = 20$:

   $$U = A x^{0.4} y^{0.6}$$

   What happens to the curve, if the value of A increase to 15? Save your results in MS-Word as 'E5'. 3+2=5

6. Using 'village.xlsx' data set (provided on the desktop), conduct suitable test to examine whether there is any significant difference in mean from income among the three villages. Interpret your test results. Save your answer as 'E6'. 3+2=5

★ ★ ★