

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

ECONOMICS

(3rd Semester)

Course No. : ECOCC-303 (B)

(For Group—B 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 a short note on 'text alignments' using MS Word. Format this document as per the following specifications : 3+2=5
- (i) Margin (all around) = 1.3 inch (or 3.3 cm)
- (ii) Line spacing = 1.15

(iii) Font type = Arial

(iv) No spacing before and after paragraph

Save the file as 'B1a'.

- (b) Using 'Rice.xlsx' data set (provided on your desktop), calculate average annual growth rates of rice production of the North-Eastern States during the given period. Analyze your results. Save your answer as 'B1b'. 3+2=5

2. (a) Using MS Word, write the equations of demand function, supply function and market equilibrium condition for a commodity. Also draw a diagram to show the determination of equilibrium price and quantity. Save your answer as 'B2a'. 3+3=6

- (b) The population densities in Cachar, Karimganj and Hailakandi in 2001 were 382, 557 and 409 respectively. The corresponding figures in 2011 increase to 459, 679 and 497 respectively. Show the above information with the help of a table. Save your answer as 'B2b'. 4

(3)

PART—2

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

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

(b) Compute a variable as 'concat' from 'consumption' with the following categories :

Below 20, 20–50, 51–74, Above 74

Draw a frequency distribution of the variable you created. Save the frequency distribution as 'B3b' in MS Word. 3

(c) Draw a bar diagram to show the relationship between 'caste' and 'family consumption expenditure'. Do not include individuals who are graduate. Save your answer as 'B3c'. 5

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

(a) Estimate the parameters of the following model and save the output in MS Word as 'B4a' : 2

$$IC_i = \alpha_0 + \alpha_1 LT_i + \alpha_2 P_i + \alpha_3 UR_i + u_i$$

(4)

where IC = incidence of crime per lakh population, LT = literacy rate, P = police per lakh population, and UR = unemployment rate.

(b) Interpret the estimated parameters of the model in plain paper. 5

(c) Conduct appropriate test to check if the model suffers from heteroscedasticity. Save your results in MS Word as 'B4c'. 1

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

PART—3

5. Draw an isoquant map in MS Excel for the following functions assuming $Q = 200, 300$ and 400 :

$$Q = 20L^{0.4}K^{0.6}$$

Save the map in MS Word as 'B5'. 5

6. Using 'Farm income.xlsx' data set (provided on the desktop), draw appropriate diagrams to show relationship between farm income and farm size, and farm income and irrigation. What kind of relationships do you observe between these two sets of variables from the diagrams? Save your answer as 'B6' in MS Word. 3+2=5

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