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

ECONOMICS

(3rd Semester)

Course No. : ECOCC–303

(Computer Application in Economics)

Full Marks : 40
Pass Marks : 16

Time : 2 hours

The figures in the margin indicate full marks for the questions

Answer **five** questions, taking **one** from each Unit

UNIT—1

1. How is a file saved on MS-Word file? How is a file renamed? Discuss the steps.   4+4=8

2. What are the different types of calculation operation that are used in MS-Excel? Elaborate.   8

UNIT—2

3. Write a note on the significance of literature survey using Internet.   8

4. What are the most common kinds of plagiarism? Why is plagiarism harmful to academic world? Elaborate.   4+4=8

UNIT—3

5. Suppose you have an ordinal variable "satisfaction" with the following values :   8

      Very unsatisfied—1
      Somewhat unsatisfied—2
      Somewhat satisfied—3
      Very satisfied—4
      Don't know—5

How will you convert the variable into a binary variable "satisfaction-2" with the following values of SPSS?

      Unsatisfied—1
      Satisfied—2

Write down the steps in detail.

6. What is an interaction variable? How is an interaction variable created in SPSS? Illustrate with an example.   2+6=8

(3)

UNIT—4

7. Suppose you are given the equation of an isoquant as

$$Q = Ax^{0\cdot5}y^{0\cdot5}$$

(a) How is an isoquant drawn in MS-Excel for $Q = 100$, $A = 10$? Write down the detailed steps. **6**

(b) What will happen to the curve if the value of A increases to 20, other things remaining constant? **2**

8. Given, the demand function

$$Q_d = 400 - 0\cdot2q$$

and the supply function

$$Q_s = 60 + 0\cdot4q$$

Write down the steps that one should follow to determine market equilibrium using MS-Excel. **8**

UNIT—5

9. (a) Construct a suitable network diagram for the following project and also identify the merge events and burst

(4)

events from the relevant network diagram : **5**

Activity	Predecessor Activity
A	—
B	A
C	B
D	B
E	B
F	C
G	C
H	F, G
I	D, H
J	E, I
K	J

(b) Discuss the problems of looping and dangling in the context of constructing a network diagram. **3**

10. (a) State the objectives of critical path analysis. **2**

(b) How can one identify critical activities in network analysis? Discuss in the light of forward pass method and backward pass method. **6**

★ ★ ★