

SEMESTER SPRING 2020

## MATHEMATICAL ECONOMICS (ECO406) ASSIGNMENT

DUE DATE: 11<sup>TH</sup> JUNE, 2020

MARKS: 15

### Question no. 1

Which among the followings are identities and which are equations, and why?

I.  $4(x-1) + 1 = x - 3(1-x)$

II.  $x(x-1) = x(x-2) + 6$

(Marks: 2)

### Question no.2

Solve the following equation by factorizing method and find the values of X.

$$2X^2 - 4X - 30 = 0$$

(Marks: 5)

### Question no.3

Solve the following equation and find the value of unknown(x).

$$\frac{6+2x}{5x+37} = \frac{2x-3}{5x-2}$$

(Marks: 5)

### Question no.4

Calculate the future value ( $P_t$ ) of a principal or present amount ( $P_0$ ) i.e. Rs. 450 at 14% interest rate, three years from now when compounded annually.

(Marks: 3)

**IMPORTANT:**

24 hours extra / grace period after the due date is usually available to overcome uploading difficulties. This extra time should only be used to meet the emergencies and above mentioned due dates should always be treated as final to avoid any inconvenience.

## **IMPORTANT INSTRUCTIONS**

### **DEADLINE:**

- Make sure to upload the solution file before the due date on VULMS.
- Any submission made via email after the due date will not be accepted.

### **FORMATTING GUIDELINES:**

- Use the font style “Times New Roman” or “Arial” and font size “12”.
- It is advised to compose your document in MS-Word format.
- You may also compose your assignment in Open Office format.
- Use black and blue font colors only.

### **RULES FOR MARKING**

Please note that your assignment will not be marked, if:

- It is submitted after the due date.
- The file you uploaded does not open or is corrupt.
- It is in any format other than MS-Word or Open Office; e.g. Excel, PowerPoint, PDF etc.
- It is cheated or copied from other students, internet, books, journals etc.

### **Note related to load shedding: Please be proactive**

### **Dear students!**

As you know that semester activities have started and load shedding problem is also prevailing in our country. Keeping in view the fact, you all are advised to post your activities as early as possible without waiting for the due date. For your convenience; activity schedule has already been uploaded on VULMS for the current semester, therefore no excuse will be entertained after due date of assignments, quizzes or GDBs.