

Department of Computer Engineering
Academic Year 2017-18 (Sem-I)
Prelim Exam

Seat No:

Class: TE
Subject: Information System & Engineering Economics
Date: 13/10/2017

Max Marks: 70
Duration: 2 ½ Hr.

Instructions: 1) Answers Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8, and Q9 or Q10.
2) Neat diagrams must be drawn wherever necessary.
3) Assume suitable data, if necessary.

- Q1** a) Differentiate between Information Systems and Information technology. (6)
- b) What are ethics in Information Systems? (6)
- c) What are main functions of Customer Relationship System (CRM) & What is ICT? Explain with its need? (8)

OR

- Q2** a) Write Ethical and Social issues in MIS. (6)
- b) Draw use case diagram for Passport validation system. (6)
- c) What is Enterprise Resource Planning (ERP)? What are its various components? Explain its advantages. (8)

- Q3** a) Explain following terms: (6)
- i) Utility
- ii) Value
- iii) Price
- iv) Demand
- v) Supply
- vi) Time Value of Money
- b) What are fundamental principles of engineering economics? (6)

OR

- Q4** a) Explain supply & demand with suitable example. (6)
- b) Explain the concept of (6)
- a. Market interest rates
- b. Discrete compounding
- c. Continuous compounding

- Q5** a) Write a case study on Economic Decisions in Multinational Companies. (6)

- b) What is actual and constant value of a currency? How is constant currency value calculated? (6)

OR

- Q6** a) A printing press owner purchased a printing machine for Rs. 1,00,000/-. His operating cost is expected to be Rs. 20,000/- per year and he expects to sell the machine for Rs. 50,000/- five years from now. Calculate the equivalent annual worth of the printing machine at an interest rate of 10%. (6)

- b) Write note on Comparative analysis of Software Enterprise from Similar Domain. (6)

- Q7** a) What is Inflation? Enumerate the types of Inflation. (6)

- b) Mr. A has purchased a car for 7,00,000 for an effective annual interest rate of 12% payable over a period of 5 years. What will his installment be? (6)

OR

- Q8** a) In how many years the amount Rs. 3600 becomes Rs. 7702 at 9 % rate of CI. (6)

- b) Write note on cash flow analysis done in start-up companies. (6)

- Q9** a) What is Depreciation? Briefly describe the different methods of depreciation? (6)

- b) Explain “Break even analysis establishes a relationship between cost and revenue with respect to volume.” (6)

OR

- Q10** a) Explain the classification of costs on their behaviour. (6)

- b) State the advantages and disadvantages of reducing balance method. (6)

All the Best

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