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## PRESIDENCY UNIVERSITY BENGALURU

### SCHOOL OF ENGINEERING MID TERM EXAMINATION - MAY 2023

**Semester :** Semester VI - B.Tech CSE - 2020

**Course Code :** MGT112

**Course Name :** Sem VI - MGT112 - Engineering Economics

**Program :** B.Tech. Computer Science and Engineering

**Date :** 18-MAY-2023

**Time :** 2.00 PM - 3.30 PM

**Max Marks :** 60

**Weightage :** 30%

**Instructions:**

- (i) Read all questions carefully and answer accordingly.
- (ii) Question paper consists of 3 parts.
- (iii) Scientific and non-programmable calculator are permitted.
- (iv) Do not write any information on the question paper other than Roll Number.

#### PART A

**ANSWER ALL THE QUESTIONS**

**(5 X 2 = 10M)**

1. List out the steps in Decision-Making process (CO1) [Knowledge]
2. Engineering and economics are connected. How do you explain? (CO1) [Knowledge]
3. Explain price elasticity coefficient and their expected signs and values. (CO2) [Knowledge]
4. What is meant by a demand schedule? (CO2) [Knowledge]
5. How are price and quantity demanded related? (CO2) [Knowledge]

#### PART B

**ANSWER ALL THE QUESTIONS**

**(6 X 5 = 30M)**

6. Briefly explain the role of engineers in business. (CO1) [Comprehension]
7. Illustrate Law of Demand, Determinants of law of demand with suitable examples. (CO1) [Comprehension]

8. What is meant by factors of production? How many classifications exist? Illustrate.  
(CO1) [Comprehension]
9. If there is an increase in price of product X from Rs. 20 to 35 the demand for product Y increases from 300 to 400 kgs. Calculate Cross Elasticity  
(CO2) [Comprehension]
10. Does price alone determine the quantity of the product demand in the market? Illustrate  
(CO2) [Comprehension]
11. One person's income would be other person's expenditure. Illustrate.  
(CO2) [Comprehension]

### PART C

#### ANSWER ALL THE QUESTIONS

(2 X 10 = 20M)

12. a. If there is an increase in price of product X from Rs. 30 to 40, the demand for product Y increases from 400 to 500 kgs. Calculate Cross Elasticity (5 Marks)
- b. If there is an increase in the price of a component A from Rs. 15 to 20 and as a result the demand for component B decreases from 40 to 30. calculate cross elasticity.(5 marks) .  
(CO2) [Application]
13. The demand function for a computer spare part is given as  $Q=500-4P$
1. Determine demand if the price is Rs.10, 15, and 20 (4 MARKS)
  2. At what price demand would be zero? (3 MARKS)
  3. What price producer would charge if he wants to sell 380 units per week? (3 MARKS)
- (CO1) [Application]