



RN-6781

**B. E. - III (Sem. V) (EC & IC) Examination**  
**May / June - 2010**  
**Engineering Economics & Business**  
**Management**

Time : 3 Hours]

[Total Marks : 100

**Instructions :**

(1)

नीचे दृशविक निशानीवाणी विगतो उत्तरवडी पर अवश्य लपवी.  
Fillup strictly the details of signs on your answer book.

Name of the Examination :  
**B. E. - 3 (Sem. 5) (EC & IC)**

Name of the Subject :  
**Engineering Economics & Business Management**

Subject Code No. : **6 7 8 1** Section No. (1, 2,.....): **1&2**

Seat No. :

Student's Signature

- (2) Answer to the two sections must be written in separate answer books.  
(3) Marks are shown on the right side of the questions.  
(4) Assume necessary data if missing.

**SECTION - I**

Q-1 Attempt any two 18

- A) Define transportation problem. When does it have an unique solution?  
B) Decision Making under certainty and risk  
C) Nature and significance of OR.

Q-2 Attempt any two 16

- A) Explain queuing model with suitable examples.  
B) Decision Making Tree.  
C) Linear programming and its model formulation

Q-3 Attempt any two 16

- A) Use simplex method to solve the LP Problem.

$$\begin{aligned} \text{Maximize } Z &= 3X_1 + 5X_2 \\ \text{Subject to } 3X_1 + 2X_2 &\leq 18 \\ X_1 &\leq 4 \\ X_2 &\leq 6 \\ \text{And } X_1 &\geq 0 \end{aligned}$$

- (B) Monte carlo simulation model
- (C) Essential features of queuing system.

Section - II

Q – 4 Attempt any two 16

- A) Distinguish Public limited, Private Limited and Joint Stock company.
- B) Classify the comparative societies according to the nature of services.
- C) Discuss principles of management laid down by Henry Fayol.

Q- 5 attempt any two 16

- a) List out principles of management derived by F. Taylor and discuss.
- b) Explain the meaning of organization. Also discuss merits and demerits of sole proprietorship.
- c) Write your understanding about “collective bargaining”.

Q – 6 Write notes on any three 18

- A) Features of scientific management
  - B) Co-ordination as an “Essence of management”
  - C) Causes of Industrial disputes.
  - D) Partnership firm.
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