

Seat No.	
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**T.E. (Civil/Env.) (Semester - V) (Prerevised) Examination,  
December - 2014**

**ENGINEERING MANAGEMENT - I**

**SUB. CODE : 37652**

**Day and Date : Thursday, 11 - 12 - 2014**

**Total Marks : 100**

**Time : 2.30 p.m. to 5.30 p.m.**

- Instructions :**
- Q.No. 1 and 5 are compulsory. Attempt any two questions from the remaining from each section.
  - Use of non programmable calculator is allowed.

**SECTION - I**

**Q1) Write short notes on any five :**

**[20]**

- Importance of communication as a function of management
- Decision making under risk
- Theory Y
- Motivation
- Decision tree
- Types of games

**Q2) a) Explain F. W. Taylor's contribution to the Management.**

**[8]**

**b) Why Henry Fayol is regarded as Father of Modern Management?**

**[7]**

**Q3) a) Enlist the types of Organization. Explain any one in detail.**

**[8]**

**b) Write an exhaustive note on 'Site Layout'.**

**[7]**

**Q4) a) Explain the steps in 'Decision Making'.**

**[8]**

**b) Explain the concept of 'Payoff Matrix'.**

**[7]**

**P.T.O.**

SECTION - II

Q5) Write short notes on any five. [20]

- i) ABC Analysis
- ii) EOQ
- iii) Decision variables w.r.t. LPP
- iv) Safety stock
- v) Waiting line theory
- vi) Sensitivity Analysis

Q6) a) Explain 'Dynamic Programming'. [8]

b) Obtain the dual of following LP model, [7]

$$\text{Maximize } Z = 10x + 4y$$

$$\text{Subject to } 20x + 10y \leq 1200$$

$$40x + 10y \leq 1600$$

$$x \geq 0, y \geq 0$$

Q7) a) Using NW corner method, find IBFS for the following transportation problem, [8]

		Destination				Supply
		1	2	3	4	
Source	1	3	1	7	4	300
	2	2	6	5	9	400
	3	8	3	3	2	500
Demand		250	350	400	200	

b) Write the steps for Vogel's Approximation Method (VAM). [7]

Q8) a) A construction company consumes 12,000 cement bags every year. It requires Rs. 250/- to place order. Each bag costs Rs. 300/-. If inventory carrying cost is 12% of average inventory investment, find out EOQ. [8]

b) Explain 'Relevant Inventory Costs'. [7]

