

**B.Tech. Civil (Construction Management) /  
B.Tech. Civil (Water Resources Engineering)**

**Term-End Examination**

**June, 2010**

**ET-524(A)/ET-534(A) : PRINCIPLES OF  
ENGINEERING MANAGEMENT AND  
ECONOMICS**

*Time : 3 hours*

*Maximum Marks : 70*

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*Note : Attempt any five questions. All questions carry equal marks.*

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1. (a) The concept of scientific management was aimed to increase productivity but it failed to give desired output. In view of the above, discuss and explain the concept and associated problem areas. 5
- (b) Explain the following theories : 3x3=9
- (i) Theory 'X'
- (ii) Theory 'Y'
- (iii) Herzberg's Two Factor Theory
2. (a) What are the conditions of Decision Making ? Give suggestions for effective Decision Making. 7
- (b) What do you understand by control process ? Why is controlling necessary ? 7

3. What do you understand by the Monopoly in the market ? Which are the two categories of monopoly ? Illustrate by drawing curves, the possible equilibrium position for a monopolist under the following cases : 2+3+9
- (a) Profit Making Monopolist
  - (b) Breaking-even Monopolist
  - (c) Loss Making Monopolist
4. (a) Explain the Interrelated sub-systems of an organisation giving a sketch. 7
- (b) Which are the ten characteristics that, when mixed and matched, exposes the essence of an organisation's culture ? 7
5. What do you understand by ISO management concept ? Give the ISO structure and list out the important benefits of ISO certification. 3+3+8
6. (a) What do you understand by 'Value' ? Explain that the value may be increased by using utility V/s cost curve. 7
- (b) Which are the three basic ingredients of Value Engineering ? Which are the two functions with which the Value Engineering deals with and the questions asked for VE test ? 7
7. Write short notes on the following : 4x3½=14
- (a) Sinking Fund Factor
  - (b) Frequency of Compounding
  - (c) Critical Path Method
  - (d) Responsibility V/s Accountability
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