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

Term-End Examination

December, 2010

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

Time : 3 hours

Maximum Marks : 70

Note : Attempt any seven questions. All questions carry equal marks.

1. (a) Define leadership and explain the bases of power the leader uses to influence his group. 5+5
(b) Explain the difference between Democratic and Authoritarian styles of leadership.

2. Explain major characteristics of Scientific Management and Human Relations Approach. Discuss the points of criticism of both. 10

3. (a) What is group think ? What are its out come? 5+5
(b) What are the barriers to effective decision making ? Discuss the strategies you would adopt to overcome these barriers.

4. What are the general causes of cost and time over runs during different phases of a project? Discuss various time and cost control tools and techniques used to control these over runs. 10
5. What is meant by "Sustained Development" and "Environmental Impact Analysis"? Explain the basic contents of EIA. 10
6. (a) What is Statistical Quality control? 4+6
(b) Explain the various control charts for "Variables" and "Attributes".
7. (a) What is understood by Demand Elasticities? Explain Price Elasticity for its five values - 4+6
 $0, < 1, 1, > 1, \infty$
(b) Illustrate with examples various types of Market structures - pure competition Monopoly, Monopolistic and Oligopoly.
8. Write short notes on any four of the following :- $4 \times 2\frac{1}{2} = 10$
(a) Organic Vs Mechanistic structure
(b) Johari windows and its implications
(c) Linear programming
(d) Acceptance sampling
(e) Matrix organization
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