

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

BTCLEVI/BTMEVI/BTECVI/BTELVI/BTCSVI

Term-End Examination

December, 2011

**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. Name any five types of popular contracts. Explain usual steps in a contracting procedure. 10
2. (a) Define valve by a basic equation. What are the three basic ingradient of valve Engineering ? 5
(b) Discuss the significance of a Utility v/s Cost Curve, giving one example. 5
3. A person intends discharging a House loan debt through annual payment of Rs.20,000/- at the end of each year over a period of three years with an annual discount rate of 20%. What would be the one time lump sum payment amount that can be made today ? 10

4. Enlist any five roadblocks in arriving at the most suitable decision as per Elbing (1978). Discuss them briefly. 10
5. What do you understand by span of Control ? Give any five factors influencing it. Calculate the number of relationships for 20 number of subordinates in span of control. 10
6. Explain any five types of power that can be exercised in an organisation, as per the concept given by French and Raven. 10
7. Explain various components of Job analysis and options for job redesign. 10
8. Differentiate the characteristics of a Bureaucratic organisation, a mechanistic structure and an organic structure in a tabular form giving at least five points in each. 10
9. Discuss various types of 'schedules' and 'status reports' for time and cost control of projects. 10
10. Write short notes on *any four* of the following : 10
 - (a) The Johari window
 - (b) Theory X and Y
 - (c) Environmental Impact Analysis
 - (d) Motivational Drives.
 - (e) Significance of training for management development.