

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

01246 **Term-End Examination**

June, 2014

**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) Explain Douglas McGregor's 'X' and 'Y' theories of motivation. 5
(b) Explain briefly with the help of charts a "Functional structure" and a "Matrix structure" of an organisation. 5
2. Discuss the symptoms of an effective team. Why do teams fail ? Give suggestions for improving team work. 10
3. Discuss the general causes of cost and time overruns of projects during various phases in Indian scenario. 10

4. Distinguish between the concepts in any *two* of the following pairs : 2×5=10
- (a) Centralisation and Decentralisation of authority.
 - (b) Job Rotation and Job Enrichment.
 - (c) Vertical organisations' growth and Horizontal organisations' growth.
5. What is a process control chart ? Explain various control charts used for attributes. 10
6. (a) "Communication is to the organisation what blood is to the body." Discuss. 6
- (b) Discuss various types of communication in an organisation, their purpose and mechanism. 4
7. (a) Define Training and Development. What are its purposes and objectives ? 5
- (b) What are the training techniques used for management development ? 5
8. Describe the various types of contracts. Discuss the steps involved in contracting. 10
9. Differentiate the characteristics of a bureaucratic organisation, a mechanistic structure, and an organic structure, in a tabular form. 10
10. Write short notes on any *two* of the following : 2×5=10
- (a) Managerial grid
 - (b) Break-Even Analysis
 - (c) Motivational Drives