

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

Term-End Examination

00517

December, 2017

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

Time : 3 hours

Maximum Marks : 70

Note : Attempt any five questions. All questions carry equal marks. Assume any missing data suitably.

1. Explain the Need Hierarchy Theory as proposed by Abraham Maslow and Alderfer's ERG Model. Discuss which is more practical and consistent. 8+6

2. (a) Define Organisation Design. Elaborate on the various issues involved in the process. 3+4
(b) Enumerate the characteristics of mechanistic structure and organic structure. 7

3. (a) What is Demand ? What are the important determinants of demand ? Discuss. 7
- (b) Define the concept of elasticity of demand. Explain its usefulness with the help of examples. 7
4. (a) Differentiate between Quality Control and Quality Assurance. 7
- (b) Write briefly on Acceptance Sampling Techniques. 7
5. (a) What are the general causes of time and cost overruns during various phases of a major project ? 7
- (b) Discuss the various time and cost control tools and techniques to control cost and time overruns. 7
6. (a) With the help of a neat diagram, explain the functional, product and matrix forms of organisation. 7
- (b) Discuss the benefits and drawbacks of matrix and other forms of project organisations. 7

7. Write short notes on the following :

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- (a) Johari Window
 - (b) Power and Authority of a Group Leader
 - (c) Benefits of Value Engineering
 - (d) Project Clearances
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