

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

Term-End Examination

00483

December, 2018

**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. Assume any missing data suitably.

1. Enumerate the principles of Scientific Management proposed by Taylor. What were the main criticisms of this thought of management ? How, in your opinion, can the Human Relations Approach overcome these problems and the criticism of this school of management ? 4+3+3

2. (a) Explain the conditions under which managers may have to make decisions.
(b) Discuss the advantages and limitations of Group Decision Making. 5+5

3. (a) Explain various types of price elasticities. What are the factors which govern the price elasticity of demand ?
- (b) "India has a very complex mixed economy." Comment. 5+5
4. What is coordination ? What are its benefits ? How is vertical coordination achieved in an organisation ? Discuss. 3+2+5
5. (a) Differentiate between "Quality Assurance" and "Quality Control".
- (b) How does the quality affect an organisation ? What are the drives for quality. 5+5
6. What is a Detailed Project Report (DPR) ? What are the documents and data necessary for its preparation. How does it differ from Techno-economic Feasibility Report ? 10
7. (a) What is "Power" ? How is it different from "Authority" ? What is meant by "Dynamics of Power" ?
- (b) How will conducting of organisation dynamics help in improving an organisation ? Discuss the steps involved and the likely benefits. 5+5

8. What do you understand by the term “Programming” and “Scheduling” of projects ? Discuss the steps involved in programming and scheduling. Discuss briefly the techniques used in engineering projects. 3+4+3
9. What do you understand by the concepts “Sustainable Development” and “Environmental Impact Assessment” ? Discuss the five basic contents of EIA. 10
10. Write short notes on any *four* of the following : $4 \times 2 \frac{1}{2} = 10$
- (a) Time Value of Money
 - (b) Johari Window
 - (c) Assumptions made under Theory ‘X’ and ‘Y’
 - (d) Break Even Analysis
 - (e) Operating Characteristic Curve (OCC)
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