

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

**Term-End Examination**

**June, 2018**

00703

**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. (a) Enumerate the principles of Scientific Management proposed by Taylor. What were the main criticisms of this management thought? 7
- (b) How, in your opinion, did the human relations approach overcome these problems and what were its weak points? 7
2. What is a group? Why is it formed? What are the factors which influence group activity? 3+4+7

3. What do you understand by horizontal and vertical coordination ? Discuss in detail the principles of vertical integration. 14
4. (a) What are the various types of contracts ? Enumerate the steps in the contracting procedure. 7
- (b) Define the contractor's construction management and project management scope of work in a large construction project. 7
5. Planning and Scheduling play a crucial role in successful completion of any project. Discuss the steps involved in planning and scheduling. 14
6. Elaborate 'Decision Making' process under different states of nature with the help of examples. 14
7. Write short notes on the following :  $4 \times 3 \frac{1}{2} = 14$
- (a) Break Even Analysis
- (b) Centralisation vs Decentralisation of Authority
- (c) Concept of Sustainable Development
- (d) Benefits of ISO-9000
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