

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

Term-End Examination

June, 2013

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

Time : 3 hours

Maximum Marks : 70

*Note : Attempt all questions. All questions carry equal marks.
The answers shall be in your own language. Assume any
missing data.*

1. (a) Define "Organisation". Give some common pattern of organisational design. 7
- (b) Prepare and explain "Organisational Chart" of any civil engineering organisation of your choice. 7
2. (a) What is importance of "Break Even Analysis" ? Explain with the help of suitable curves, Break-Even-Analysis as applied to any single product firm. 7
- (b) How are markets distinguished ? Identify with the help of suitable examples different types of market structure. 7

OR

- (a) What are the four classical principles of vertical coordination? Differentiate vertical coordination from horizontal coordination. 7
- (b) Give advantages and disadvantages of functional organization. Give conditions under which these organizations are recommended. 7
3. (a) Define 'Power'. Explain different types of power that can be exercised in an organization. 7
- (b) Differentiate between 'Job Analysis' and "Job Specification". Also explain conditions when "Job enlargement" or "Job enrichment" is used. 7
4. (a) Differentiate "power" from "authority". Take an organization of your choice and explain centralization and decentralization. 7
- (b) Define value give its types. Explain creativity phase of Value Engineering Job plan. 7
5. Write short notes on *any four* of the following :
- (a) Differentiate acceptance sampling from process control 4x3¹/₂=14
- (b) Time value of money
- (c) Overview of ISO-9000

- (d) Step-by step procedure for solving interest related problems
 - (e) Control charts for variables
 - (f) Operating characteristic curve
 - (g) Techniques in decision - making
 - (h) Individual versus group decision making
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