

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

**Term-End Examination**

**December, 2013**

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

*Time : 3 hours*

*Maximum Marks : 70*

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*Note : Attempt any seven questions. All questions carry equal marks.*

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- . Discuss the major characteristics of scientific management. What were the major contributions and criticism of this school of thought ? 10
- . What is vertical co-ordination ? Discuss in detail about the four classical principles of vertical coordination. 10
- . What do you understand by Organisational culture and Organisational climate ? Discuss the elements of organizational structure. 10
- . Discuss the various steps involved in project planning and scheduling. 10

5. Differentiate between *any two* of the following : 2x5=
- (a) Quality Assurance and Quality Control.
  - (b) Delegation and Authorization
  - (c) Individual Vs Group decision making
  - (d) Capital Expenditure Vs Revenue Expenditure
6. (a) Define value. How does it differ from cost ?
- (b) Describe 7-phases of value Engineering job plan.
7. (a) What are the different project clearances, which are necessary for the project to commence ?
- (b) Enumerate the main sources for project finance.
8. Describe the "Pure" and "Matrix" forms of project organisations. Discuss the merits and de-merits of each type keeping in view the fundamental parameters for organisation design.
9. Discuss the Maslow's Needs Hierarchy theory. How does it differ from Herzberg theory of motivation ?
10. Write short notes on *any two* of the following : 2x5=
- (a) Johari window
  - (b) Acceptance sampling
  - (c) Span of control