No. of Printed Pages : 2

ET-524(A)/ET-534(A)

B.Tech. Civil (Construction Management) / B.Tech. Civil (Water Resources Engineering) B.Tech (Aero space Engineering)

Term-End Examination

June, 2011

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

Time : 3 hours

04702

Maximum Marks : 70

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

- 1. (a) Define coordination. How can it be 5+5 achieved ?
 - (b) Explain the four classical principles to achieve vertical coordination.
- Explain the assumptions made in Douglas 10 McGregor's Theory X and Theory Y. How does it differ from Herzberg theory of two factors ?
- 3. (a) Discuss the decision making process. Under 5+5 what conditions are the decisions made ?
 - (b) Discuss the Brain storming technique for identification of alternatives in decision making process.

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P.T.O.

- Define value Engineering. Explain various phases 10 of a VE, Job plan. Illustrate your answer with suitable examples.
- 5. (a) Explain any two planning techniques used 5+5 in engineering projects.
 - (b) Define various types of contracts in construction management.
- 6. (a) What is acceptance sampling ? Discuss with 5+5 the help of a flow charts various types of sampling plans.
 - (b) Explain the purpose of OC curve. Draw an OC curve and mark the following.
 - (i) Producers Risk (α)
 - (ii) Consumers Risk (β)
 - (iii) Acceptable Quality Limit (AQL)
 - (iv) Lot Tolerance percent Defective (LTPD).
- 7. Explain with the help of neat sketches functional, 10 Project, and Matrix Organizations. List out the advantages and disadvantages of each. How does a matrix organization combine the advantages of both functional and project form of organizations ?
- 8. Write short notes on *any four* of the following :-
 - (a) Statistical Quality Control $4x2\frac{1}{2}=10$
 - (b) Managerial Grid
 - (c) Job rotation V_s Job enrichment
 - (d) Span of control
 - (e) Total Quality Management.

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