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

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

**Term-End Examination, 2019**

**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. Assume any missing data suitably.

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1. (a) What do you understand by "Primary Needs" "Secondary Needs" and "Motivational Factors" ?  
[4]
- (b) Explain Maslow's and Herzberg theories of motivation. Discuss salient differences between the two. [6]
2. Explain with the help of neat diagrams Functional and Matrix forms of organisation. Discuss the advantages, limitations and suitability of both. [10]

3. (a) Define 'Project'. What are their characteristics ? How do they differ from other form of production process ? Discuss. [4]
- (b) What are the general causes of project over-runs during different phases of project life cycle ? [6]
4. (a) What is training and development ? Discuss its purpose. [4]
- (b) Discuss the training techniques for management development. [6]
5. Differentiate **any two** of the following : [2×5=10]
- (a) Responsibility, Accountability and Authority
- (b) Mechanistic and Organic Structure
- (c) 'Job Rotation' and 'Job Enrichment'
6. (a) "Communication is to the organisation what blood is to the body". Discuss with suitable examples. [5]
- (b) Discuss the various types of communication in an organisation, their purpose and mechanism.[5]
7. (a) What is acceptance sampling ? Discuss various types of sampling plans [5]

- (b) Explain with the help of a neat diagram, the purpose of operating characteristic curve. [5]
8. Explain the various types of group. What do you understand by group norms, group values and group cohesiveness ? How group cohesiveness can be achieved ? Explain. [10]
9. Discuss the various types of 'Schedules' and 'status Reports' you will use for time and cost control of construction projects. [10]
10. Write short notes on **any four** of the following : [10]
- (a) Statistical Process Control
  - (b) Brainstorming
  - (c) Work Breakdown Structure
  - (d) 150-9000 Certification
  - (e) Value Engineering

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