

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

Term-End Examination

December, 2014

01135

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

Time : 3 hours

Maximum Marks : 70

*Note : Attempt any **five** questions. Question no. 1 is **compulsory**. The answers shall be in your own language.*

1. Fill in the blanks :

- (a) Managers gather information from _____ ,
_____ , _____ and other _____. 2
- (b) Management is the process of _____ ,
_____ , _____ and _____ the efforts of
organisational members and use of resources
in order to achieve stated organisational
goals. 2
- (c) Elasticity is always with respect to _____
and there are as many _____ of
_____ as there are demand-_____. 2
- (d) A utility function is _____ while a
productive function is _____. 1

- (e) In simple monopoly, a firm charges a _____ for its products for all its _____ . 1
- (f) Reward Power is the ability to _____ while Coercive Power is the ability to _____ . 1
- (g) The administrative/structural subsystem is a _____ , _____ , _____ within the organisation. $1\frac{1}{2}$
- (h) When the job is expanded horizontally it is known as _____ and when vertically, job _____ . 1
- (i) Ability to exercise influence is _____ while right to command and extract obedience is _____ . $1\frac{1}{2}$
- (j) Value is defined as the ratio of _____ divided by _____ . 1

2. Explain the role of a manager. What do you understand by Theory 'X' and Theory 'Y' ? How are they different from Herzberg's Two Factor theory? 4+5+5

3. (a) What do you understand by Law of Demand ? Explain the demand elasticities based on the demand-determinants, with the help of examples. 9

(b) Define production function. Explain the importance of total productivity curve. 5

4. (a) Explain the three basic propositions required for the analysis of business environment in any economy. 8
- (b) Explain briefly the theory of work motivation. 6
5. (a) What do you understand by co-ordination? Explain the need, benefits and approach to co-ordination. 9
- (b) Distinguish between authority and power. Also explain the dynamics of power. 5
6. (a) How do you define Value Engineering? Explain the same with the help of illustrations. 9
- (b) Explain CPM as a project scheduling technique. 5
7. Write short notes on any **four** of the following : $4 \times 3 \frac{1}{2} = 14$
- (a) Breaking-even Monopolist
- (b) Categories of Power
- (c) Types of Values and Functions
- (d) Derivation of Demand-Revenue Relationship
- (e) Communication and Interpersonal Relations
- (f) ISO Certification