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

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

Term-End Examination

00091 **June, 2015**

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) The three conditions of decision-making are   3

         (i) _____ .

         (ii) _____ .

         (iii) _____ .

    (b) The three types of control are   3

         (i) _____ .

         (ii) _____ .

         (iii) _____ .

    (c) The supply curve is defined for   3

         (i) _____ .

         (ii) _____ .

         (iii) _____ .

(d) The three levels of need hierarchy in the ERG Theory by Clayton Alderfer are *3*

(i) _____ .

(ii) _____ .

(iii) _____ .

(e) Organisations make use of division of work in the following two ways : *2*

(i) _____ .

(ii) _____ .

2. What are the important inter-personal skills ? Explain the theory of work motivation. What are the employee's problems at work ? *4+5+5=14*

3. Derive the relationship between Demand and Revenue. What do you understand by Demand Elasticities ? Explain the same based on demand-determinants. *5+9=14*

4. How does the communication flow in an organisation ? Explain the purpose and mechanism of all the four types of communication. *6+8=14*

5. (a) Explain the following organisations with their benefits and drawbacks : *9*

(i) Project Organisation

(ii) Matrix Organisation

(b) Explain the major strategic variables influencing the design of an organisational structure. *5*

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6. (a) Explain the ISO structure through a diagram. Give at least four benefits of ISO certification. *9*

(b) Explain briefly three means for generating alternatives in decision-making. *5*

7. Write short notes on any *four* of the following :

$$4\times3\frac{1}{2}=14$$

(a) Value Engineering

(b) Power and Authority

(c) Need Hierarchy theory of Maslow

(d) Sampling Plan

(e) Manager's Role

(f) Importance of Staff Training