B.Tech. Civil (Construction Management)
Term-End Examination
December, 2015

ET-525 : CONSTRUCTION MANAGEMENT-II

Time : 3 hours   *Maximum Marks : 70*

Note : *Attempt **five** questions in all. Question no. 1 is **compulsory**. In addition answer any **four** questions from the remaining. Question no. 1 carries 18 marks. Balance all questions carry 13 marks each.*

1. (a) What are the five basic principles of relationship on which the pattern of organisational structure depends ? Explain the parameters of organisational interaction in the light of four distinct types of recognised relationships.

    (b) A certain brand of cement used in Project Construction Batching Plant has an anticipated demand rate of 500 kg per month. The cost of cement is ₹ 200 per 50 kg and the reordering cost is ₹ 250 per 50 kg. The inventory holding cost is 5% of the cement cost per month. Lead time for reorder is 3 months. Determine the optimum order quantity and the optimum interval between placing orders using the simple inventory model and considering shortage costs as infinite.

(c) Define the term 'Account'. What is an accounting equation ? Explain or illustrate diagrammatically the aspects of Assets, Liabilities and Capital in Accounting System. *3×6=18*

2. (a) Explain the different motives of holding the cash by firms and organisations.

(b) Discuss various objectives/functions of cash management. *8+5=13*

3. (a) Explain in detail with the help of a neat diagram the Economic Order Quantity (EOQ) model.

(b) Explain the multi-variable (mv) method of classification for procurement. *7+6=13*

4. Explain the factors on which the pumping characteristics of a concrete pump performance depends. *13*

5. What do you mean by contract ? When does a contract become illegal ? Explain the following contracts : *2+3+4+4=13*

(a) Unit Price Contract

(b) Cost Plus Percentage Contract

6. Explain the economic life of an equipment. How would you determine the economic life of an equipment ? Explain with a neat sketch. *4+9=13*

7. (a) Write short notes on the following : *3×3=9*

     (i) Minimum Wages Act, 1948

     (ii) Negotiated Contract

     (iii) Collective Bargaining

  (b) Explain the term 'Liquidated Damages' as used in framing a contract. *4*

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