DIPLOMA IN CIVIL ENGINEERING (DCLEVI) / ADVANCED LEVEL CERTIFICATE IN CIVIL ENGINEERING (ACCLEVI)

01213

Term-End Examination
December, 2012

BICE-023 : CONSTRUCTION MANAGEMENT

Time : 2 hours   *Maximum Marks : 70*

*Note : Attempt **any five** questions. Question No. **1** is **compulsory**. All questions carry **equal** marks.*

1. Mention *True/False* for the statements given below.   **7x2=14**

   (a) The use of CPM lies in planning and controlling the operation.

   (b) The cost of inventory does not include material cost.

   (c) Conveyer is a material handling function.

   (d) CPM is a critical path method.

   (e) Sampling is a function of a quality control.

   (f) A critical path has infinite slack.

   (g) Expected time (t_E) is the maximum time required to complete an activity under the worst condition.

2. (a) Describe the aims and objectives of construction management. 7

(b) Discuss the functions and inter-relationship among engineer, owner and contractor. 7

3. (a) Explain briefly the underlying assumptions of PERT and CPM network models applied in project management. 7

(b) Write a note on preparation of bar chart for a simple construction work. 7

4. (a) Discuss the three different types of organizations. 7

(b) Explain briefly span of control and delegation of authority. 7

5. (a) What are the principles of storing and stacking materials at site ? 7

(b) Explain the term "job layout" and why job layout is important ? 7

6. (a) Explain different methods of recording progress. 7

(b) What is cost optimization ? Write down the difference between direct and indirect cost. 7

7. (a) Explain in detail the principles of inspection.   7

(b) Discuss the inspection and quality control of Reinforced Cement Concrete (RCC) work.   7

8. Write short note on *any four* of the following :

(a) Stages of quality control.   4x3.5=14

(b) Critical activity and critical path.

(c) Stages of construction planning.

(d) Need for inspection.

(e) Unity of command.

(f) Schedule for materials.

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