Model Question Paper

Eighth Semester B.Tech Degree examination

(2008 Scheme)

Branch: Civil

03.805: Construction Management

Time: 3 Hours Max. Marks: 100

Instruction: Answer all questions from Part A and one question from each module in Part B

PART – A

1. Who constitutes construction team in construction industry?

2. What are the stages in construction work?

3. Differentiate between EMD and SD

4. What are the various types of tenders?

5. Explain the rate of return analysis.

6. What are the costs associated with a project?

7. What is muster roll?

8. Differentiate between PERT and CPM. (8x5=40 Marks)

PART – B

Module -1

9. a) What are the principles of scientific management advocated by F W Taylor?

   b) Explain the need of management in construction industry.

   OR

10. What are the stages involved in project planning and implementation

   OR

   a) Discuss the factors affecting the water table. Explain the meaning of water table. If the depth of water table is 2.5 m below the ground level, the depth of water table is 7.5 m below the ground level and it is required to construct a well of 4 m depth, calculate the required quantity of water to be added to the well. (10x2=20)

   b) A concrete mixture was required to produce 120 cubic meters of concrete. The mixture contains 1 part of cement, 2 parts of sand and 3 parts of gravel. The density of cement, sand and gravel is 1450 kg/m³, 1600 kg/m³ and 1200 kg/m³ respectively. Calculate the weight of cement, sand and gravel required for the mixture.
Module - I

11. a) What are the important conditions of contract included in contract documents?

   b) Explain the process “awarding of tenders”

OR

12. a) What are the various methods of recording progress of work?

   b) Write a short note on measures adopted in execution of construction works.

Module - I I

13. a) What are the importance of planning and scheduling in construction industry?

   b) Prepare a bar chart for the construction of a workshop. List the activities properly specify and their interrelationships.

OR

14. For a project network the following information is given:

<table>
<thead>
<tr>
<th>Activity</th>
<th>Duration(Days)</th>
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<tbody>
<tr>
<td>12</td>
<td>5</td>
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<tr>
<td>13</td>
<td>6</td>
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<td>3</td>
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<td>6</td>
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</table>

   i) Draw project network

   ii) Determine critical path and its duration

   iii) Find the total float, free float and independant float of all activities