

Roll No.....

CE-802**B.E. VIII Semester**

Examination June, 2013

Construction Planning & Management**Time : Three Hours****Maximum Marks : 100****Minimum Pass Marks :35**

Note : Attempt all the five questions. All questions carry equal marks.

- 1) a) Write in brief about six functions of construction management. 6
- b) Differentiate CPM and PERT. 5
- c) Develop a critical path schedule and work out the other time elements when the following activities, their duration and events are given. 9

Activities	Predecessor Event	Successor Event	Duration (days)
A	1	2	4
B	1	3	12
C	1	4	12
D	2	4	8
E	2	5	6
F	3	6	8
G	4	6	10
H	5	7	10
I	6	7	0
J	6	8	8
K	7	8	10
L	8	9	6

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OR

- a) Write and draw the flow diagram to show some aspects of decision making process. 10
- b) Write short notes on : 10
 - i) Scaffolding
 - ii) Form work for shell roof structure.

- 2) a) What is the operation cost of equipment in civil project. 5
- b) Write various excavation equipments used for civil projects. 10
- c) Write in brief on hoisting equipment. 5

OR

- a) List the various pressure grouting equipments and discuss any two with their suitability. 7
- b) List the requirement of various equipments for road work project and discuss any of one of them in details. 8
- c) Write short note on travelling tower cranes. 5

- 3) a) List the various requirements of a good tender documents. 7
- b) Differentiate earnest money, security deposit and performance guarantee. 8
- c) Write short note on schedule of rates. 5

OR

- a) What is the maximum amount of liquidated and ascertained damages (penalty) that can be recovered from a contractor for delay in completion of work. 8

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- b) Write short note on : 6
 - i) Arbitration
 - ii) Deposit work
 - iii) Percentage rate contract.

- c) "Time is essence of contract" - discuss it. 6

- 4) a) What is specifications and how they are framed for a particular job or item? 7
- b) What are the general rules for recording of measurement for the purpose of payment in civil project. 9
- c) Write in short on cash book. 4

OR

- a) What is tools and plant discuss with reference to civil project? 6
- b) Write in short the various specifications related to concrete work. 10
- c) Write in brief on running bill and final bill. 4

- 5) a) Write in brief about labour welfare schemes and labour laws. 12
- b) Describe five main provisions of the Contract Labour Act 1970. 8

OR

- a) List the various safety measures you suggest for a multistoreyed construction work. 10
- b) State the merits and demerits of a functional organisation for a medium construction projects. 10