

Total No. of Questions: 6

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Enrollment No.....



Faculty of Engineering
End Sem Examination May-2024

CE3EC05 Construction Project Management

Programme: B.Tech.

Branch/Specialisation: CE

Duration: 3 Hrs.

Maximum Marks: 60

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d. Assume suitable data if necessary. Notations and symbols have their usual meaning.

- Q.1 i. Money released by executing a particular activity or work is termed as- **1**
(a) Invoice (b) Scheduling (c) Planning (d) Controlling
- ii. Staff schedule is mostly developed on- **1**
(a) Weekly basis (b) Daily basis
(c) Yearly basis (d) Monthly basis
- iii. Bar chart is developed in the year- **1**
(a) 1893 (b) 1900 (c) 1927 (d) 1940
- iv. The positive value of slack indicates that event is- **1**
(a) On schedule time (b) Ahead of schedule time
(c) Behind of schedule time (d) None of these
- v. Expression of cost slope is- **1**
(a) $\frac{CC-NC}{CT-NT}$ (b) $\frac{CC-NC}{NT-CT}$ (c) $\frac{CC+NC}{NT+CT}$ (d) $\frac{CC+NC}{CT-NT}$
- vi. Indirect cost consist of- **1**
(a) Outage Loss (b) Overhead cost
(c) Both (a) and (b) (d) None of these
- vii. Which of the following is considered as a cause of dispute? **1**
(a) Deviations (b) Incorrect ground data
(c) Unreasonable attitudes (d) All of these
- viii. In which of the following closure, Punch list is being prepared- **1**
(a) Financial closure (b) Construction closure
(c) Contract closure (d) Project's manager closure
- ix. Another name of Progress control is- **1**
(a) Schedule control (b) Quality control
(c) Cost control (d) None of these

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- x. Which of the following method is used for project updating? **1**
(a) Updating using bar chart (b) Updating using PERT
(c) Updating using CPM (d) All of these
- Q.2 i. Write down various principles of construction project management. **2**
ii. What do you understand by the term project scheduling? Enlist the name of other schedule derived from project schedule. **3**
iii. Define construction project planning. Explain various types of project plans in detail. **5**
- OR iv. What is job layout? Explain its principal preparation with neat sketch. **5**
- Q.3 i. Write down various rules for drawing a network. **4**
ii. Explain milestone chart in detail with neat sketch diagram. Also write down its applications. **6**
- OR iii. Explain the following terms- **6**
(a) Earliest occurrence time (b) Latest occurrence time
(c) Slack (d) Expected time
- Q.4 i. Define total float & free float with their mathematical expression. **4**
ii. Explain the following terms- **6**
(a) Earliest start time (b) Earliest finish time
(c) Latest start time (d) Latest finish time
- OR iii. Explain direct and indirect cost of the construction project in detail with neat diagram. **6**
- Q.5 i. Define project closure. Enlist the name of different types of project closure. **3**
ii. Define contract. Explain various types of contract in detail. **7**
- OR iii. Explain resource levelling in detail. Explain the implementation of resource levelling using one example. **7**
- Q.6 Attempt any two: **5**
i. Explain any two methods of project updating in detail. **5**
ii. Explain various applications of project management software. **5**
iii. Explain different functions of MS project software in detail. **5**

Marking Scheme

CE3EC05 (T) Construction Project Management

Q.1	i)	a. Invoice	1
	ii)	d. Monthly basis	1
	iii)	b. 1900	1
	iv)	b. Ahead of schedule time	1
	v)	b. $\frac{CC-NC}{NT-CT}$	1
	vi)	c. Both a and b.	1
	vii)	d. All of these	1
	viii)	b. Construction closure	1
	ix)	a. Schedule control	1
	x)	d. All of these	1
Q.2	i.	Give on correct explanation.	2 Marks
	ii.	Definition –	1 Marks
		Names –	2 Marks
	iii.	Definition –	1 Marks
OR		Types explanation –	4 Marks
	iv.	Definition –	1 Marks
		Principal preparation –	3 Marks
		Sketch –	1 Marks
Q.3	i.	Give on correct explanation of any 4 rules.	4 Marks
	ii.	Explanation of Milestone chart –	2 Marks
		Sketch –	1 Marks
		Applications-	3 Marks
OR	iii.	Give 1.5 marks for each point explanation i.e. on explaining all points correctly give	6 Marks.
Q.4	i.	Total float with mathematical expression –	2 Marks
		Free float with mathematical expression –	2 Marks
	ii.	Give 1.5 marks for each point correct explanation i.e. on explaining all points give	6 Marks.
	iii.	Direct cost correct explanation –	2.5 Marks
OR		Indirect cost correct explanation –	2.5 Marks
		Diagram –	1 Marks
Q.5	i.	Project closure definition –	1 Mark
		Types name –	2 Mark
	ii.	Contract definition –	1 Mark

OR	iii.	Types Explanation –	6 Mark
		Explanation of Resource levelling –	2 Mark
		Implementation –	5 Mark
Q.6	i.	Give for explaining any 2 methods correctly.	5 Mark
		Give for correct explanation.	5 Mark
		Give for explaining any 5 functions.	5 Mark
