

**Code: 9A01710**

B.Tech IV Year I Semester (R09) Supplementary Examinations June 2017

**CONSTRUCTION TECHNOLOGY & PROJECT MANAGEMENT**

(Civil Engineering)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions  
All questions carry equal marks

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- 1 Write a short note on construction estimating and construction schedule and explain how it is important in construction industry.
- 2 What did you understand about the prefabrication construction? Write the advantages in prefabrication construction.
- 3 Government planned to construct a bridge in a perennial river having 10 piers. As an engineer, what are the techniques that are to be implemented in the bridge construction? Explain with neat sketch.
- 4 List out the different types of drillers. Explain with neat sketch how to choose the driller for drilling operation in rocks.
- 5 Write short notes on project planning and scheduling and also explain how it is important in construction management.
- 6 Explain with suitable example, how to construct a network for a proposed complex construction.
- 7 Define the terms frequency distribution, mean, variance and standard deviation.
- 8 Draw a network diagram for the given activity and durations in the following table. And find out the critical path, EST, EFT, LST, LFT, total float and free float.

Description of activity	Activity symbol	Preceding activity	Succeeding activity	Duration days
Lay out foundation	A	None	B	3
Dig foundation	B	A	C	6
Place form work	C	B	G	6
Place concrete	D	G, H	None	7
Obtain steel	E	None	F	4
Cut and bent steel	F	E	G	3
Place steel reinforcement	G	F, C	D	2
Obtain materials for concrete	H	None	D	12

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