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Reg. No. : .....

Name : .....

Eighth Semester B.Tech. Degree Examination, May 2022

08.805 : CONSTRUCTION MANAGEMENT (C)

(2008 Scheme)

Time : 3 Hours Max. Marks : 100

Answer **all** questions from Part-A and any one question from each module of Part B.

PART – A

1. What are the objectives of construction management?
2. Brief the principles of employer – employee relationship in construction industry.
3. State the construction stages of an industrial building.
4. Who can be the arbitrator in the execution of government projects?
5. State the drawbacks of bar charts.
6. What do you understand about critical and non critical activities?
7. State the Fulkerson's rule of numbering the events.
8. Explain in brief about the types of contract.

(8 × 5 = 40 Marks)

P.T.O.

PART – B

Module — I

9. (a) What are the qualities you would look for while appointing a Construction Manager for a large construction project? **10**

(b) A sugar factory is going to be established nearby your town. Prepare a Feasibility report for the project. Assume other relevant data. **10**

OR

10. (a) Describe the functions of construction management. **10**

(b) Explain in detail the planning for men and materials in construction projects. **10**

Module — II

11. (a) Compare the different modes of tender and call for its merits and demerits. **10**

(b) Brief the documents to be attached with the tender. **10**

OR

12. Illustrate the different types of contracts and their suitability for the different kinds of construction work. **20**

Module — III

13. (a) Bring out the limitations of bar charts and how it can be overcome? **8**

(b) Using Fulkerson's rule draw the arrow diagram for the following situations:

A and D start at the same time

F follows A

K follows A but precedes L

G follows D but precedes J

G follows F but precedes H

M follows H but precedes L

J and L terminate at the same time. **12**

OR

14. (a) What is a dummy? How and where should dummy be used? **6**

(b) A small project is composed of seven activities given below. **14**

Activity	Estimated Duration (Weeks)		
	Optimistic	Most Likely	Pessimistic
1-2	1	1	7
1-3	1	4	7
1-4	2	2	8
2-5	1	1	1
3-5	2	5	14
4-6	2	5	8
5-6	3	6	15

(i) Draw PERT network

(ii) Find the expected duration, standard deviation and variance of all activities

(iii) What is the expected project length?

(iv) Calculate the variance and standard deviation of the project duration.

(3 × 20 = 60 Marks)