

Roll No.

Total No. of Pages : 02

Total No. of Questions : 18

B.Tech (Civil Engg.) (Sem.–5)

**CONSTRUCTION ENGINEERING & MANAGEMENT**

Subject Code : BTCE-503-18

M.Code : 78462

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTION TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

**SECTION-A**

**Answer briefly :**

- 1) What is full form of CPM?
- 2) What are shortcomings of bar chart?
- 3) What is the function of a crane?
- 4) What is full form of BIM?
- 5) What do you understand by Liquidated damages?
- 6) What is direct project cost?
- 7) Define pessimistic time estimate.
- 8) What is the need of expansion joints in construction?
- 9) Define shallow foundation.
- 10) Define the term 'Mullion'.

### SECTION-B

- 11) Describe various phases of project management.
- 12) With neat sketches, explain the working of a dragline.
- 13) Write a short note on Time cost trade-off in construction projects.
- 14) Differentiate between Histogram and S curves highlighting their advantages/disadvantages.
- 15) Discuss in brief the basics of slip forming for tall structures.

### SECTION-C

- 16) a) A contractor was allotted a work order for construction of a boundary wall costing 25 lakhs. He has not started the work in spite of repeated reminders. What action you will propose?  
b) Discuss various Dispute Resolution Methods
- 17) You are appointed as Chief Engineer (Quality Control). List the various steps you will take to ensure good quality in projects.
- 18) What are the assumptions underlying PERT analysis. How slack is computed? How probability of completion is calculated?

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**