Seat No: Enrollment No:

## PARUL UNIVERSITY

# **FACULTY OF ENGINEERING & TECHNOLOGY**

### **B.Tech. Summer 2021-22 Examination**

Semester: 8 Date: 28/03/2022

Subject Code: 03104451 Time: 10:30 am to 01:00 pm

Subject Name: Construction Project Management & Economics Total Marks: 60

### **Instructions:**

- 1. All questions are compulsory.
- 2. Figures to the right indicate full marks.
- 3. Make suitable assumptions wherever necessary.
- 4. Start new question on new page.
- Q.1 A) Draw the network from following three time estimate, find out total project duration. (05)

Activity	Optimistic time	Pessimistic time	Most likely time
1-2	2	6	4
1-3	2	10	6
1-4	7	9	6
2-3	4	9	7
3-5	3	12	11
4-5	4	14	10

B) What is Bar chart? Explain advantages and disadvantages of Bar chart.

(05)

(05)

C) What do you understand by floats? Explain different types of float.

(15)

- Q.2 Answer the following questions. (Attempt any three) (Each five mark)A) Discuss important traits of a project coordinator.
  - B) Differentiate between CPM and PERT.
  - C) Explain evaluation of public projects by benefit/cost ratio method
  - D) What do you mean by breakeven analysis? Which are the assumptions and advantages of Breakeven analysis?
- Q.3 A) What are the objectives of resource allocation? Explain what do you mean by resource levelling? (07) Explain step by step process of resource levelling
  - B) What do you understand by direct cost and indirect cost? Enumerate steps for optimization of cost. (08)

#### OR

OR

- B) Enlist various forms of project management structure. Discuss pure project management with its advantages and disadvantages. (08)
- **Q.4** A) What do you understand by updating? Why it is essential?

#### (07)

- A) Prepare a work breakdown structure for a residential building project. (07)
- B) Enumerate and discuss various phases of construction project.

(08)