

**6<sup>TH</sup> SEM ./ CIVIL ./ 2023(S)**

**TH-2 Construction Management**

Full Marks: 80

Time- 3 Hrs

Answer any five Questions including Q No.1& 2  
Figures in the right hand margin indicates marks

- 1 Answer **All** questions. 2 x 10
- a. What is bin card?
- b. What do you mean by job layout.
- c. Define work breakdown structure.
- d. What is free float.
- e. What is muster roll?
- f. What is scheduling?
- g. What is epicentre.
- h. Define optimistic time.
- i. What do you mean by working drawing?
- j. What is meant by Dummy activity?
2. Answer **Any Six** Questions. 6 x 5
- a. Differentiate between PERT and CPM.
- b. Outline the advantages and disadvantages of line organization.
- c. Write down the objectives of construction management.
- d. State the advantages of Bar Chart.
- e. What are the objective of preparing job layout
- f. What are the rule for preparing indent and invoice .
- g. Describe various non destructive methods of quality control.

3. A project has the following times schedule.

10

| Activity      | 1-2 | 1-3 | 2-4 | 3-4 | 3-5 | 4-9 | 5-6 | 5-7 | 6-8 | 7-8 | 8-9 | 8-10 | 9-10 |
|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| Time in weeks | 4   | 1   | 1   | 1   | 6   | 5   | 4   | 8   | 1   | 2   | 1   | 8    | 7    |

Construct CPM Network and compute.

I. TE and TL for each event.

II. Float for each activity.

III. Critical path and its duration.

4. Describe different types of conflicts . 10
5. Write down the preparation of a job layout and prepare a job lay out for construction of a RCC framed building. 10
6. Describe different ways of equipment maintenance. 10
7. What are the types of labour incentives, elaborate. 10