

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. Define job layout.
 - b. Define optimistic time and critical path.
 - c. Define bin card and indent.
 - d. Write down two advantages of conflict.
 - e. Define lumpsum.
 - f. Write the components of operating cost of equipment.
 - g. What is cost index?
 - h. Write down the importance of construction planning.
 - i. What is work breakdown structure?
 - j. What are the types of wages?
2. Answer **Any Six** Questions 6 x 5
 - a. Define pre-tender stage and its procedure.
 - b. Write the advantages and disadvantages of CPM network technique.
 - c. Write down the characteristics and principle of an organisation.
 - d. What is the importance of equipment maintenance.
 - e. If 7,9,15 days are optimistic time, most probable time and pessimistic time estimates of an activity respectively, calculate the following for an activity.
 - i. Expected time
 - ii. Variance
 - iii. Standard deviation
 - f. Describe the role of an construction team.
 - g. Describe work study and work schedule.
- 3 Explain the safety measures during fabrication and erection worksite. 10
- 4 Describe flood hazards, control measures and precaution measures. 10
- 5 Write down the necessity of inspection ,testing and quality standards during construction. 10
- 6 Draw the network diagram using following data given and find the critical path. Calculate earliest start time, earliest finish(EF),latest start(LS) and latest finish(LF) time for each event. 10

Activity	Duration
1-2	3days
2-3	7days
2-4	11days
2-5	9 days
3-6	5 days
4-6	6days
5-7	8days
6-7	4days

- 7 Write down short notes of the following. 10
 - Muster Roll
 - Bar chart