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**SUBJECT CODE NO:- H-146**  
**FACULTY OF SCIENCE AND TECHNOLOGY**  
**B.E. (Civil)**  
**Construction Management**  
**(REVISED)**

[Time: Three Hours]

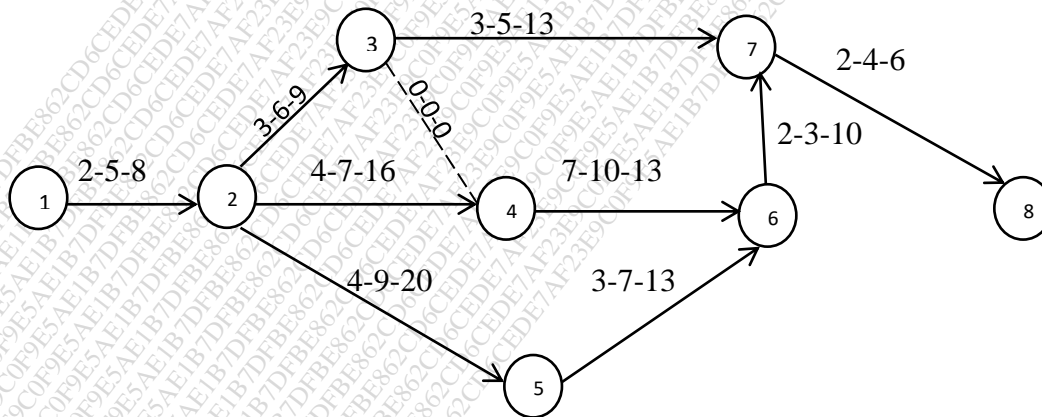
[Max.Marks: 80]

Please check whether you have got the right question paper.

- N.B
1. Solve any three questions from each section.
  2. Figures to right indicate the maximum marks.

**Section A**

- Q.1 a) List out the rights and responsibilities of project manager. 07  
 b) State the objectives and explain the function of construction management. 06
- Q.2 a) Explain in brief various parts of dragline with sketch. 07  
 b) Describe in brief the term project initiation and project implementation. 06
- Q.3 Figure shows a network for a construction project with the three times estimates of each activity. 13  
 Determine:
- i) Critical path and standard deviation
  - ii) Probability of completion of project in 40 days
  - iii) Time duration that will provide 95% probability of its completion on time.



- Q.4 a) Distinguish between PERT and CPM. 07  
 b) Network rules 06
- Q.5 Write short notes on any two 14
- i) Bar chart
  - ii) Cost optimization
  - iii) Dummy
  - iv) Time estimate in PERT

**Section B**

- Q.6 a) Enlist the different investment Criteria method? Explain any one in detail. 07  
 b) Describe the term cost of project. 06
- Q.7 a) Describe in details tools used for safety in construction project. 07  
 b) Explain minimum wages act. 06
- Q.8 a) Explain the term Downward and Horizontal communication. 07  
 b) Explain in detail barrier in communication. 06
- Q.9 a) Explain in detail “Economic Order Quantity” 07  
 b) A construction company purchases 1000 bags of cement annually. Each bag of cement costs Rs 200 and the cost incurred in procuring each lots is Rs 100. The cost of carrying is 25%. What is the most economic order quantity? What is the average inventory level? 06
- Q.10 Write short notes on any two 14  
 i) Net Present Value  
 ii) ABC Analysis  
 iii) Software use in project planning  
 iv) Oral Communication