

**BACHELOR OF ARCHITECTURE (B.Arch.)**

**Term-End Examination**

00531

**June, 2019**

**BAR-073 : PROJECT MANAGEMENT**

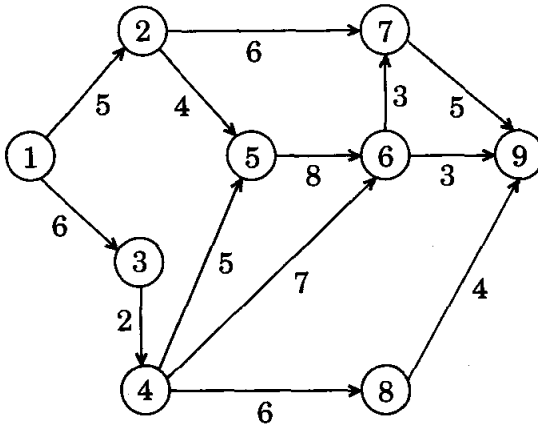
*Time : 3 hours*

*Maximum Marks : 70*

*Note : Question no. 1 is compulsory. Attempt any four from the remaining questions. All questions carry equal marks.*

1. Write short notes on any *four* of the following :  $4 \times 3 \frac{1}{2} = 14$
- (a) Cost Benefit Analysis
  - (b) Event and Activity
  - (c) Force Majeure
  - (d) Critical Path
  - (e) Contract
2. Discuss various parameters and guidelines prescribed by OSHA to conduct a safety audit at a construction site. 14

3.



(a) For the network above, calculate the Earliest Event Time ( $T_E$ ) and the Latest Allowable Occurrence Time ( $T_L$ ) for all events. 10

(b) Calculate the Critical Path Time for the network and mark the critical path with thick dark lines. 4

4. Discuss in brief the resources allocation problem. What are the methods of solving the problem ? 14

5. What is the importance of quality control in construction work ? Briefly describe the major items of construction work requiring special attention as regards to quality control. 14

6. What is tendering ? Explain the various steps involved in a tendering process for a typical government project. 14

7. Draw a typical layout for a four-storeyed building construction site in a heavily congested city area. The area of the site is  $1000 \text{ m}^2$  and 50% coverage is allowed. All the three sides have already been built up and there is a 25 m wide road on the fourth side.

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