

**SUBJECT CODE NO:- E-46**  
**FACULTY OF ENGINEERING AND TECHNOLOGY**  
**B.E.(Civil) Examination Nov/Dec 2017**  
**Construction Management**  
**(REVISED)**

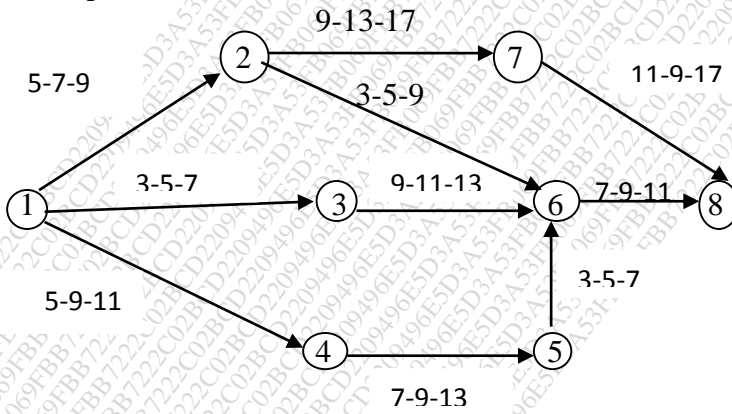
[Time: Three Hours]

[Max.Marks:80]

- N.B Please check whether you have got the right question paper.  
 (i) Solve any three questions from each section  
 (ii) Figures to right indicate the maximum marks.

**SECTION A**

- Q.1 a) Explain the role of construction industry in national development. 07  
 b) State the objectives and explain the function of construction management. 06
- Q.2 a) Explain the criteria for selection of construction equipment for projects. 07  
 b) Describe between bar chart and milestone start. 07
- Q.3 The network for certain project is shown below. Determine the expected time for each path and Which path is critical. 13



- Q.4 a) Discuss time estimate in PERT 07  
 b) Discuss cost slope and crashing of network 06
- Q.5 Write short notes on any three 12  
 i) Backhoe  
 ii) Management Information Systems  
 iii) Network updating  
 iv) CPM

## SECTION B

- Q.6 a) Write a short notes on capital Budgeting 07  
b) Describe the term cost of project 07
- Q.7 a) Explain the importance of manpower in construction industry 07  
b) Explain minimum wages act 06
- Q.8 a) Write a note on effective organizational communication. 07  
b) Explain in detail barrier in communication. 06
- Q.9 a) What are the objectives of material management in construction industry 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 three 12  
i) Benefit Cost ratio  
ii) EOQ Model  
iii) Software use in project planning  
iv) Safety manual