

Total No. of Printed Pages:2

**SUBJECT CODE NO:- H-146**  
**FACULTY OF SCIENCE AND TECHNOLOGY**  
**B.E. (Civil) (Sem-II)**  
**Construction Management**  
**[Revised]**

[Time: Three Hours]

[Max.Marks: 80]

N.B

- Please check whether you have got the right question paper.
- Solve any three questions from each section.
  - Assume suitable data where necessary and mention it clearly in the answer sheet.

**SECTION – A**

- Q.1 a) What are the roles and responsibilities of construction project manager. 07  
 b) Discuss work break down structure in detail. 06

- Q.2 a) Enlist and explain different types of concreting equipment's. 07  
 b) Differentiate between bar chart and mile stone chart. 06

- Q.3 a) Following activity relationships are given in table below, draw the network and number the events as per Fulkerson's rule. 08

Activity	A	B	C	D	E	F	G	H	I	J
Immediate Predecessor	--	A	A	B	C	B	C	F	D,E	G

- b) Write short note on project appraisal. 05

- Q.4 a) Explain the features of construction project which makes it unique compared to other project types. 07  
 b) What do you understand by concept of management information system? 06

- Q.5 a) Draw the following network and compute earliest start time, earliest finish time, latest start time, latest finish time and total float, also determine total project duration and locate critical path. 14

Activity	1-2	2-3	2-4	2-5	4-5	3-6	5-6	4-7	6-7	7-8
Duration (Weeks)	1	2	2	2	4	3	3	2	2	3

**SECTION – B**

- Q.6 a) What are safety audits? Why is safety audit necessary? 07  
 b) Discuss some popular project management software's. 06

- Q.7 a) Explain fixed capital and working capital in detail. 07  
 b) Discuss the role of vendor management in material management. 06

- Q.8 a) Why is the importance given to grapevine communication in any organization. 06  
 b) A construction company purchases 20,000 bags of cement annually. Each bag of cement costs Rs. 300 and the cost incurred in procuring each lot is Rs. 200. The cost of carrying is 25 percent. What is the most economic order quantity? What is average inventory level? 08
- Q.9 a) What is job evolution? What are various methods of job evolution? 07  
 b) Explain the concept of cost of project. 06
- Q.10 a) Explain upward, downward and horizontal communication in detail. 07  
 b) Explain the importance of material management in construction projects. 06