

B.E. (Mechanical) (Sem-VIII) (CBCS)

[Time: 3 Hrs]

[Marks: 80]

Please check whether you have got the right question paper.

- N.B:
1. Q. No.1 is compulsory
 2. Answer any three of the remaining five questions
 3. Assume suitable data, if necessary

- Q. 1** Write Short notes on following (Any Four) (20)
- i. Risk Breakdown Structure (RBS)
 - ii. Virtual project teams
 - iii. Scoring models of project selection
 - iv. Project Audit
 - v. Top down and Bottoms up budgeting.

- Q.2**
- a) Why meetings are useful in project monitoring? What rules should be followed to maximize effectiveness of meetings? (05)
 - b) Explain the four stages of team development and growth? (05)
 - c) What is crashing of a project? Explain with a small example the process of crashing (10)

- Q. 3**
- a) Explain how percentage completion with respect to time vary in Case of typical and atypical project life cycles, explain using examples (05)
 - b) What are the risk response strategies for negative risks (threats) and positive risks (opportunities) (05)
 - c) A software development project at day 30 exhibits an actual cost of Rs.87,000/- and the scheduled cost of Rs. 81,000/-. The software manager estimates a value of completed work of Rs. 90,000/-. What are the cost and schedule variances and CSI? Estimate the time variance assuming linear relation between time and cost (10)

- Q. 4**
- a) Who are the stakeholders in project? Why communication is most important part of project manager's job? (10)
 - b) Why project manager's role is more of a facilitator rather than a supervisor? (10)

- Q. 5** a) Following are the time and cost details of the project (15)

Activity	Predecessor	Normal Time	Crash Time	Normal cost	Crash cost
A	--	2	1	10000	15000
B	--	8	5	15000	21000
C	A	4	3	20000	24000
D	B	1	1	7000	7000
E	B	2	1	8000	15000
F	C,D	5	3	10000	16000
G	E	6	2	12000	36000

Find the minimum possible time of the project and the minimum cost associated with it

- b) Explain the Goldratt's critical chain method? (05)

- Q. 6** a) What is work breakdown structure (WBS)? If you are co-ordinator to organise a one week student training workshop in your college write down a WBS for this project. (10)
- b) List and briefly describe the ways projects may be terminated. What are some non technical reasons for project termination? (10)
