

Total Time 03 Hrs.

[Total Marks 80]

**N.B.:**

- (1) **Question No.1 is compulsory**
- (2) Attempt any **three** questions out of remaining **five** questions
- (3) Figures to right indicate full marks
- (4) Assume suitable data if **necessary**.
- (5) Notations carry usual meaning.

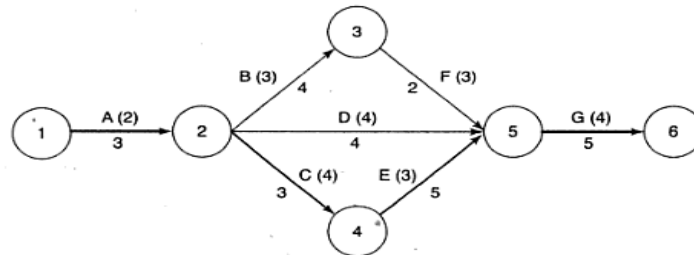
**Q.1** Write short notes on the following (**Any four**)

**20**

- i Work breakdown Structure
- ii Project Auditing
- iii Concurrent Engineering
- iv Tripple constraints in project management
- v Project Management Information System

**Q.2 (A)** Following network shows a project having various activities in AOA format. Above the arrow the alphabet denotes the activity name and the number in parentheses denotes the number of crew members required for carrying out the activity. The number below the arrow indicates time duration.

**15**



Draw a Gantt AOA chart from the above and construct a resource loading diagram. If the time duration of the project cannot be increased above 16 days how many minium crew members are required in the team. If available crew members are only 7, how many days will be required to finish the project?

**(B)** Why communication is most important part of project manager's job?

**05**

**Q.3 (A)** What is a project life cycle? How does cost of change, risk and influence of stakeholders are affected with project time during the life cycle of a project?

**10**

**(B)** Explain Probability and impact matrix. What are the risk response strategies for negative risks(threats) and positive risks(opportunities)

**10**

**Q.4 (A)** Determine the net present value for a project that costs Rs.2,40,000/- and would yield after-tax cash flows as follows. Assume cost of capital is 10 %.

**10**

Year	Cash Flow [Rs]
1	25,000
2	75,000
3	80,000
4	100,000

Comment on feasibility of project based on NPV.

(B) Differentiate between the Functional, Pure Project and Matrix organizations. 10

Q.5 (A) What are the non numeric models of project selection? Explain in brief. 05

(B) Draw an Earned value chart and describe the three variances of it and explain their significance. 10

(C) What are responsibilities of project auditor? How do project audit recommendations help the project? 05

Q.6 (A) List and briefly describe the ways projects may be terminated. What are some non technical reasons for project termination? 10

(B) What are four stages of team development and growth? What are advantages of effective team? What are barriers to team effectiveness? 10

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