(2 HOURS) **(MAX. MARKS : 60)**

Note:
1. Question No. 1 is compulsory.
2. Attempt any three questions out of remaining five questions.
3. Figures to right indicate full marks.

Q.1 Answer the following **(Any three)**
    a. Write a short note on entrepreneurial competence   05
    b. What is precedence diagramming? Explain.   05
    c. Explain in brief the process of termination of project   05
    d. Write a note on Design Structure Matrix   05

Q.2 a. Compare the process of financial assessment method, discounted cash flow method and scoring method of project selection.   08
    b. Explain how to calculate the time required for completion of the set of tasks using learning curve.   07

Q.3 a. Explain about the budget uncertainty and risk management.   07
    b. What are the different steps to calculate failure mode and effect analysis of quantitative project risk analysis?   08

Q.4 a. Construct the AON network for the following project, find the critical path and critical time.   15

Activity	Activity Description	Predecessor	Estimated duration (in weeks)
A	Excavate	-	2
B	Lay the foundation	A	4
C	Put up the rough wall	B	10
D	Put up the roof	C	6
E	Install the exterior plumbing	C	4
F	Install the interior plumbing	E	5
G	Put up the exterior sliding	D	7
H	Do the exterior painting	E,G	9
I	Do the electrical work	C	7
J	Put up the wall board	F,I	8
K	Install the flooring	J	4
L	Do the interior painting	J	5
M	Install the exterior fixtures	H	2
N	Install the interior fixtures	K,L	6

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Q.5 a. Explain how interface management can be used for the planning of project? 10

b. Write a short note on concurrent engineering in project planning. 05

Q.6 a. Sequence the following 7 jobs into three machines 15

Jobs/Machines	J1	J2	J3	J4	J5	J6	J7
M1	3	8	7	4	9	8	7
M2	4	3	2	5	1	4	3
M3	6	7	5	11	5	6	12

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