

Pradnya Niketan Education Society, Pune.

NAGESH KARAJAGI *OPCHIO* COLLEGE OF ENGINEERING & TECHNOLOGY, SOLAPUR

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Electrical Engineering Department

Subject: Elective VIII (Project Management) Class: TE

Subject Incharge: Prof. Patil J.B. Semester: II

CHAPTERWISE QUESTION BANK

UNIT 1: INTRODUCTION TO PROJECT MANAGEMENT

Sr. No.	Questions	Blooms Level	Course Outcome
1	Define Project. State and explain	Remember	CO1
	characteristics of Project.		
2	Define Project management. Explain in detail	Understand	CO1
	objectives of Project management.		
3	Explain Stages of Project Management.	Understand	CO1
4	Discuss in detail Project Planning Process.	Create	CO1
5	Explain Project organization structure in	Understand	CO1
	detail.		

UNIT 2: WORK DEFINITION

Sr. No.	Questions	Blooms Level	Course Outcome
1	Define Work study. What are the Steps Involved in		
	Work Study? State Principles and objectives of Work study. Also state the benefits of Work study.	Remember	CO1
2	Discuss in detail Project Cost Estimation on the basis		
	of following points		
	a) Inputs	Create	CO1
	b) Tools and Techniques		
	c) Outputs		
3	Discuss in detail Cost Budgeting on the basis of		
	following points	Create	CO1
	a) Inputs	Create	COI
	b) Tools and Techniques		

- c) Outputs
- Explain Project Risk Management on the basis of Purpose, Objectives, Characteristics, Approach, Understand CO2 Identification and analysis
 Explain Time Estimation Method by considering
- 5 Explain Time Estimation Method by considering
 Optimistic, Pessimistic and Most Likely Time
 Estimate. State in short Single versus Multiple Time
 Estimates.

 Understand

UNIT 3: PROJECT SCHEDULING AND PLANNING TOOLS

CO₂

Sr. No.	Questions	Blooms Level
1	Explain in detail Work Breakdown Structure (WBC).	Understand
2	Explain in detail Linear Responsibility Chart (LRC).	Understand
3	Explain Gantt charts.	Understand
4	Explain CPM/PERT Networks in detail.	Understand
5	A small project consisting of ten activities has the following	Apply
	characteristics:	

- a) Construct the project network.
- b) Find the duration and variance of each activity.
- c) Find the critical path and project completion time.

(ANS: 1-2-3-6-7-8; 17 weeks)

d) What is the probability of completing project on or before 22 week

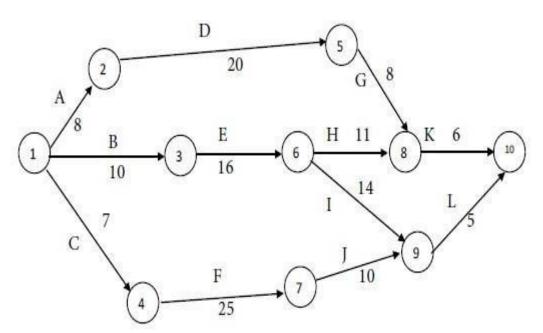
Activity	Preceding	Time I	Estimate weeks	
	Activity	Optimistic	Most likely	Pessimestic
A	-	4	5	12
В	-	ı	1.5	5
C	Α	2	3	4
D	A	3 .	4	11
E	Α .	2	3	4
F	С	1.5	2	2.5
G	D	. 1.5	3	4.5
Н	B,E	2.5	3.5	7.5
1	н .	1.5	2	2.5
J	F, G, I	1	2	3

A Project is composed of seven activities whose time estimates are listed in Evaluation the following table. Activities are simplified by this beginning (1) ones ending (j) Node member. Calculate expected project length.

(ANS: Expect project length will be 17 weeks.)

Activity		Estimated duration in weeks		
ı	J	Optimistic	- Most likely	Pessimestic
1	2	1	1	7.
1	3	1	4	7
1	4	. 2	2	8
2 .	5	ı	1	1
3	5	2	5	14
4	6	2	5	8
. 5	6	3	6	15

7 Find out the completion time and the critical activities for the following Analyze project:



ANS: The critical activities are C, F, J and L. The project completion time is 47 units of time.

Sr. Questions

No. Sometimes and project Blooms

Level

8 Draw the network diagram, determine the critical path and project Evaluation

8 Draw the network diagram, determine the critical path and project completion time for the following project:

Activity	Time estimate (Weeks)
1-2	5
1-3	6
1-4	3
2 -5	5
3 -6	7
3 -7	10
4 -7	4
5 -8	2
6 -8	5
7 -9	6
8 -9	4

(ANS: The critical activities are B, E, I and K. The project completion time is 22 weeks)

UNIT 4: DEVELOPING PROJECT PLAN

Sr. No.	Questions	Blooms Level
1	Explain Project cash flow analysis.	Understand
2	Explain Project scheduling with resource constraints.	Understand
3	Discuss in detail Resource Levelling and Resource Allocation.	Create
4	With necessary graphs discuss in detail Time Cost Trade off : Crashing	Create
	Heuristic.	
5	Let us say Nice Ltd wants to expand its business and so it is willing to	Evaluation
	invest Rs 10,00,000. The investment is said to bring an inflow of	
	Rs. 1,00,000 in first year, 2,50,000 in the second year, 3,50,000 in	
	third year, 2,65,000 in fourth year and 4,15,000 in fifth year. Assuming	
	the discount rate to be 9%. Let us calculate NPV using the formula.	
6	A project requires an initial investment of \$225,000 and is expected to	Apply
	generate the following net cash inflows:	
	Year 1: \$95,000	
	Year 2: \$80,000	
	Year 3: \$60,000	
	Year 4: \$55,000	
	Required: Compute net present value of the project if the minimum	

desired rate of return is 12%.

UNIT 5: PROJECT IMPLEMENTATION

Sr. No.	Questions	Blooms Level	Course Outcome
1	Discuss in deatail Project Monitoring and Control with PERT/Cost:	Create	CO1
2	What are the Computers applications used in Project	Remember	CO3
	Management. Explain brief.		
3	Explain in deatail Various types of Contract Management.	Understand	CO3
4	Explain in detail Project Procurement Management.	Understand	CO2

UNIT 6: PROJECT IMPLEMENTATION

Sr. No.	Questions	Blooms Level	Course Outcome
1	Define Post Project Analysis. What is the meaning of Post Project Evaluation?	Remember	CO2
2	Explain in detail Objectives of Post Project Evaluation.	Understand	CO3
3	Discuss the process of Post Project Evaluation.	Create	CO4
4	What are the Observations need to take during Post Project Evaluation? Explain in detail.	Remember	CO4
5	Discuss in brief Report on Post Project Evaluation.	Create	CO4