

**K. J. Somaiya Institute of Technology, Sion, Mumbai-22**  
(Autonomous College Affiliated to University of Mumbai)

April – May 2023		
(B. Tech / M.Tech.) Program: M.Tech. Artificial Intelligence Scheme I/II: II		
Examination: FY Semester: II		
Course Code: PCEILC2051 and Course Name: Project Management		
Date of Exam: 23/06/23	Duration: 2.5 Hours	Max. Marks: 60

Instructions:				
(1) All questions are compulsory.				
(2) Draw neat diagrams wherever applicable.				
(3) Assume suitable data, if necessary.				
		Max. Marks	CO	BT level
Q 1	Solve any six questions out of eight:	12		
i)	What is triple constraint in project management?	02	CO1	BT1
ii)	Summarize the concept of negotiation and conflict in Project Management?	02	CO1	BT2
iii)	Explain the working of any one numeric and any one non-numeric models of project selection	02	CO2	BT2
iv)	What are the different ways to crashing project time?	02	CO4	BT1
v)	How top down budgeting is different from bottom-up budgeting?	02	CO3	BT4
vi)	What are the different methods of identifying Risk? Explain any one method	02	CO4	BT1
vii)	Define stakeholder with different roles of stakeholder.	02	CO5	BT1
viii)	Explain the requirement to begin the process of establishing organizational ethics programs.	02	CO6	BT2
Q.2	Solve any four questions out of six.	16		
i)	Differentiate between the Functional, Pure Project and Matrix organizations.	04	CO1	BT4
ii)	Determine the net present value of an investment of Rs. 3,00,000 for 6 years' period with yearly cash inflow of 60,000 considering discount rate 12%.	04	CO2	BT3
iii)	The following data pertain to small construction project. Draw the network diagram, determine the critical path and expected project duration.	04	CO3	BT3



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		Event	Activity	Duration		
		A	1-2	2		
		B	1-3	4		
		C	1-4	3		
		D	2-3	0		
		E	2-5	1		
		F	3-5	6		
		G	4-6	5		
		H	5-6	7		
iv)	Explain the Goldratt's critical chain method?	04	CO4	BT2		
v)	Explain Project Audit with different types of project Audits	04	CO5	BT2		
vi)	Explain project management templates with a sample template sheet.	04	CO6	BT2		
Q.3	Solve any two questions out of three.	16				
i)	Define Project Management. Explain project life cycle.	08	CO1	BT2		
ii)	Summarize the Processes of project risk management	08	CO4	BT2		
iii)	Draw an Earned value chart and describe the three variances of it and explain their significance.	08	CO5	BT3		
Q.4	Solve any two questions out of three.	16				
i)	Explain various stages of project team development and growth. Explain advantages of effective team.	08	CO2	BT2		
ii)	Explain work breakdown structure (WBS)? If you are coordinator to organize a one-week student training workshop in your college write down a WBS for this project.	08	CO3	BT3		
iii)	Explain different ways by which projects may be terminated. Describe some non-technical reasons for project termination?	08	CO6	BT2		

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