

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

April – May 2023 (B.Tech.) Program: All Branches Scheme :II Examination: LY Semester: VIII Course Code: <u>ILC8041</u> Course Name: <b><u>Project Management</u></b>		
Date of Exam:20/05/2023	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								
<b>Q 1</b>	<b>Solve any six questions out of eight.</b>	<b>12</b>										
i)	Give several examples of projects found in your city, region, or country. Enlist the attributes on which you have declared these as a project and not as an operations or product.	2	CO1	U								
ii)	Match each of the following elements to either a Work Breakdown Structure or a Project Schedule by filling in the table cell with the proper indicator— "Project Schedule" or "WBS".	2	CO2	U								
	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td><b>Milestones</b></td><td></td></tr> <tr><td><b>Tasks</b></td><td></td></tr> <tr><td><b>Work Packages</b></td><td></td></tr> <tr><td><b>Activities</b></td><td></td></tr> </table>	<b>Milestones</b>		<b>Tasks</b>		<b>Work Packages</b>		<b>Activities</b>				
<b>Milestones</b>												
<b>Tasks</b>												
<b>Work Packages</b>												
<b>Activities</b>												
iii)	Compare Gantt Chart and Network Diagram	2	CO3	U								
iv)	Distinguish resource loading from resource levelling	2	CO4	U								
v)	Which are different types of project contract	2	CO5	U								
vi)	Enlist the steps involved in terminating the project.	2	CO6	R								
vii)	What is milestone why are they useful?	2	CO5	U								



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

April – May 2023		
(B.Tech.) Program: All Branches Scheme :II		
Examination: LY Semester: VIII		
Course Code: <u>ILC8041</u> Course Name: <u>Project Management</u>		
Date of Exam:20/05/2023	Duration: 2.5 Hours	Max. Marks: 60

viii)	List out the responsibilities of the project manager in terminating the project.	2	CO6	U
<b>Q.2</b>	<b>Solve any four questions out of six.</b>	<b>16</b>		
i)	What are the responsibilities of project manager in terminating the project?	4	CO6	U
ii)	Explain project procurement management and explain various methods of project control and evaluation.	4	CO5	U
iii)	Pessimistic time and optimistic time of completion of an activity are given by 10 days and 4 days respectively. What will be variance of the activity.	4	CO3	App
iv)	Planning a project without RACI Matrix is recommended or not recommended? Illustrate your answer.	4	CO2	App
v)	A matrix organization is difficult to manage all by itself. What do you think the problems would be in managing mixed organizational systems?	4	CO1	App
vi)	Contrast the Project Plan, and the Work Breakdown Structure.	4	CO2	U
<b>Q.3</b>	<b>Solve any two questions out of three.</b>	<b>16</b>		
i)	Assume a company is reviewing two projects. Management must decide whether to move forward with one, both, or neither. Its cost of capital is 10%. The cash flow patterns for each are as follows:	8	CO1	APP



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

April – May 2023

(B.Tech.) Program: All Branches Scheme :II

Examination: LY Semester: VIII

Course Code: ILC8041 Course Name: Project Management

Max. Marks: 60

Date of Exam: 20/05/2023

Duration: 2.5 Hours

	<p><b>Project A</b></p> <ul style="list-style-type: none"> <li>• Initial Outlay = \$5,000</li> <li>• Year one = \$1,700</li> <li>• Year two = \$1,900</li> <li>• Year three = \$1,600</li> <li>• Year four = \$1,500</li> <li>• Year five = \$700</li> </ul> <p><b>Project B</b></p> <ul style="list-style-type: none"> <li>• Initial Outlay = \$2,000</li> <li>• Year one = \$400</li> <li>• Year two = \$700</li> <li>• Year three = \$500</li> <li>• Year four = \$400</li> <li>• Year five = \$300</li> </ul> <p>Select an appropriate project using IRR.</p>																												
ii)	For each one of the nine components of a project plan, identify the problems that might be raised if the element was incomplete.	8	CO2	APP																									
iii)	<p>Prepare a PERT network and identify the critical path with the help of following data. Trace the network in forward and backward direction and calculate the task time.</p> <table border="1" data-bbox="534 1581 965 1935"> <thead> <tr> <th>Activity</th> <th>Predecessor</th> <th>Duration</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>-----</td> <td>5</td> </tr> <tr> <td>B</td> <td>-----</td> <td>4</td> </tr> <tr> <td>C</td> <td>-----</td> <td>6</td> </tr> <tr> <td>D</td> <td>A,B,C</td> <td>4</td> </tr> <tr> <td>E</td> <td>A,B,C</td> <td>8</td> </tr> <tr> <td>F</td> <td>D</td> <td>6</td> </tr> <tr> <td>G</td> <td>D,E</td> <td>3</td> </tr> </tbody> </table>	Activity	Predecessor	Duration	A	-----	5	B	-----	4	C	-----	6	D	A,B,C	4	E	A,B,C	8	F	D	6	G	D,E	3	8	CO3	App	
Activity	Predecessor	Duration																											
A	-----	5																											
B	-----	4																											
C	-----	6																											
D	A,B,C	4																											
E	A,B,C	8																											
F	D	6																											
G	D,E	3																											



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

April – May 2023 (B.Tech.) Program: All Branches Scheme :II Examination: LY Semester: VIII Course Code: <u>ILC8041</u> Course Name: <u>Project Management</u>		Max. Marks: 60
Date of Exam: 20/05/2023	Duration: 2.5 Hours	

	<table border="1" style="margin: auto;"> <tr> <td>H</td> <td>D,E</td> <td>4</td> </tr> <tr> <td>I</td> <td>F</td> <td>2</td> </tr> <tr> <td>J</td> <td>G</td> <td>8</td> </tr> <tr> <td>K</td> <td>H</td> <td>4</td> </tr> </table>	H	D,E	4	I	F	2	J	G	8	K	H	4			
H	D,E	4														
I	F	2														
J	G	8														
K	H	4														
<b>Q.4</b>	<b>Solve any two questions out of three.</b>	<b>16</b>														
i)	For particular work package the budgeted cost of March 31 is \$20, 000. Suppose as of march 31 the supervision determines that only 80% of scheduled work has been completed and actual expenses is \$21,000. What is BCWP? Compute AV, SV, CV, SPI and CPI of work package.	8	CO4	App												
ii)	Use the statement, “failing to define what is not a part of project is just as important as failing to define what is part of the project” in the context of Project scope.	8	CO5	App												
iii)	What is ethical leadership and ethical dilemma.	8	CO6	U												

\*\*\*\*\*