

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

End Semester Exam

Nov -Dec (2021-2022)

(B.Tech.) Program: Computer Engineering

Examination: TY Semester: V

Course Code: 1UCEC502 and Course Name: **Software Engineering**

Duration: 03 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)	Illustrate the umbrella activities of Software Engineering	2	CO1	U
ii)	Define requirement. List out the major tasks of requirement engineering	2	CO1	U
iii)	Explain the project scheduling principles	2	CO2	U
iv)	Explain abstraction with reference to design concepts in design modelling	2	CO3	U
v)	Describe testing objectives	2	CO4	U
vi)	Define Risk. Explain proactive and reactive risk	2	CO5,CO 6	U
vii)	Describe SCM tasks	2	CO5,CO 6	U
viii)	Explain Class diagram with its notations and relationship in detail	2	CO4	U
Q.2	Solve any four questions out of six.	16		
i)	Explain RAD model with its advantages and disadvantages	4	CO1	U
ii)	Describe any four methods of requirement elicitation	4	CO1	U
iii)	Differentiate between Gantt chart and PERT chart	4	CO2	U
iv)	What is activity diagram? Draw the activity diagram for hospital management system	4	CO3	U
v)	Distinguish between Whitebox and black box testing	4	CO4	U
vi)	Illustrate SCM process in detail	4	CO5,CO 6	U
Q.3	Solve any two questions out of three.	16		
i)	Develop SRS for hotel management system	8	CO1	AP
ii)	What is FTR? How it is conducted?	8	CO5,CO 6	U

iii)	Draw DFD till level 2 for inventory management system	8	CO2	U
Q.4	Solve any two questions out of three.	16		
i)	What is UML? Draw the usecase diagram for railway reservation system considering all probable scenarios.	8	CO3	C
ii)	What is white box testing? Explain its types	8	CO4	U
iii)	Describe the types of maintenance	8	CO5,CO 6	U