



Semester: July 2024 –November 2024		
Maximum Marks: 100	Examination: ESE Examination	Duration:3 Hrs.
Programme code: 01	Class: TY	Semester: V (SVU 2020)
Programme: B.Tech Computer Engineering		
Institute/School/Department: K. J. Somaiya School of Engineering	Name of the department: COMP	
Course Code: 116U01C501	Name of the Course: Software Engineering	
Instructions: 1) Draw neat diagrams 2) All questions are compulsory		
3) Assume suitable data wherever necessary		

Que. No.	Question	Max. Marks
Q1	Solve any Four	20
i)	Explain the importance of project planning in project management.	5
ii)	Describe SRS document in short.	5
iii)	Explain the issues related to architectural pattern.	5
iv)	Explain the elements used in deployment diagram.	5
v)	Explain the concept of equivalence partitioning with suitable example.	5
vi)	Explain the different approaches to resolve the risk.	5

Que. No.	Question	Max. Marks
Q2 A	Solve the following	10
i)	State and explain different capability maturity model levels.	5
ii)	Compare Waterfall model and RAD model (Five points).	5
	OR	
Q2 A	State different Agile methodologies and explain extreme programming (XP).	10
Q 2 B	Solve any One	10
i)	Describe the functional requirements in detail.	10
ii)	Draw the sequence diagram to renew a book from library and state the role of elements used in sequence diagram.	10

Que. No.	Question	Max. Marks
Q3	Solve any Two	20
i)	Explain the different software design concepts.	10
ii)	Explain the concepts of reverse engineering and re-engineering.	10
iii)	Explain mapping associations to collection in mapping model to code with suitable code for required part of the example.	10

Que. No.	Question	Max. Marks
Q4	Solve any Two	20
i)	State four types of transformations in mapping model to code and explain model transformation with example.	10
ii)	Explain about formal technical review (FTR) in software quality control.	10
iii)	Describe object oriented testing techniques.	10

Que. No.	Question	Max. Marks
Q5	Solve any four (Short notes)	20
i)	Software process framework activity.	5
ii)	Collaboration diagram.	5
iii)	Software reuse.	5
iv)	PERT technique	5
v)	Validation and verification in testing.	5
vi)	Software maintenance.	5