

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

Subject Code: AIC503

Subject Name: Software Engineering

Date:

02-03-2024

Supplementary Exam (Feb/Mar 2024)

(B.Tech.) Program: <u>Artificial Intelligence & Data Science</u> Examination: TY Semester: V				
Course Code: <u>AIC503</u>		Course Name: Software Engineering		
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)	Define software engineering.	2	1	R
ii)	Explain the different types of requirements for software.	2	2	R
iii)	Explain 4P's of Management Spectrum.	2	3	U
iv)	What are the characteristics of good design?	2	4	R
v)	Explain White Box Testing techniques.	2	5	U
vi)	Differentiate Reactive v/s Proactive risk strategies with respect to risk management.	2	6	U
vii)	Explain characteristics of SRS.	2	2	U
viii)	Describe the Risk identification with respect to Risk assessment.	2	6	R
Q.2	Solve any four questions out of six.	16		
i)	Explain CMM (Capability Maturity Model) in details.	4	1	U
ii)	Explain Analysis modelling & design modelling principles.	4	2	U
iii)	Explain Software Project Estimation Technique	4	3	U
iv)	Differentiate between Cohesion and Coupling.	4	4	U
v)	Explain Black Box Testing techniques.	4	5	U
vi)	Write a short note on RMMM	4	6	U

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Q.3	Solve any two questions out of three.	16		
i)	Explain Agile development model with its characteristics.	8	1	U
ii)	Explain the elements of design model.	8	4	U
iii)	Explain the concepts of Software Re-engineering.	8	5	U
Q.4	Solve any two questions out of three.	16		
i)	Draw DFD level 0 and level 1 for Bank management system.	8	2	Ap
ii)	Differentiate between CPM and PERT.	8	3	U
iii)	What is SCM? What is its need? What are its features?	8	6	R
