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

Nov - Dec 2024

(B. Tech / M. Tech:) Program: Artificial Intelligence & Data Science Scheme:- II B

Regular Examination: TYSemester: V

Course Code: AIC503 and Course Name: Software Engineering

Date of Exam: 27/11/2024 Duration: 02.5 Hours

Solve any two questions out of three. (10 marks each)

Explain Extreme Programming (XP) in detail.

Explain software Reengineering activities

Explain different types of cohesion with examples

Q.3

a)

b)

c)

Max. Marks: 60

20

1

4

5

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(1)A (2)D	uctions: Il questions are compulsory. raw neat diagrams wherever applicable. ssume suitable data, if necessary.			
Q. No.	Question	Max. Marks	СО	BT level
Q1	Solve any two questions out of three: (05 marks each)	10		
a)	What are the five levels of the Capability Maturity Model (CMM)?		1	R
b)	What are the key techniques for requirement elicitation?		2	R
c)	Why is a timeline/Gantt chart important in project management?		3	U
Q 2	Solve any two questions out of three: (05 marks each)	10		
a)	What is the difference between Alpha and Beta testing?		4	R
b)	How can project risks be defined, and can you provide an example		5	U
c)	What are the main components of a Use Case Diagram?		6	U

Q.4 Solve any two questions out of three. (10 marks each) 20 What are the components of a class diagram? Draw a class diagram for a U a) hospital management system. 3 U Explain COCOMO-II estimation model. b) Explain change control in software configuration management process 6 R c) with suitable diagram.
