

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

End Semester Exam

May -June 2022-23

(B.Tech/...) Program: Information Technology

Examination: TY Semester: VI

Course Code: ITC603 and Course Name: Advanced Software Engineering and Project Management

Duration: 2.30 Hours

Date: 17/05/2023

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)	List and explain Agility Principles	02	CO1	2
ii)	Explain Design Process	02	CO2	2
iii)	Explain Management Spectrum, 3Ps	02	CO3	2
iv)	Describe Risk Identification and Risk Assessment	02	CO4	1
v)	Describe Architectural Conception	02	CO5	2
vi)	Explain Motivations for Micro Services	02	CO6	1
vii)	Describe Scrum processing Model	02	CO1	1

viii)	Describe Design Evaluation method	02	CO2	2
Q.2	Solve any four questions out of six.	16		
i)	Explain Capability Maturity Model (CMM)	04	CO1	2
ii)	Design and explain Architecture of Hospital Management system	04	CO2	2
iii)	List and explain W5HH Principle	04	CO3	2
iv)	Describe SCM Repositories	04	CO4	2
v)	Explain Design Process steps	04	CO5	2
vi)	List and explain Types of Micro Services	04	CO6	2
Q.3	Solve any two questions out of three.	16		
i)	Describe V-model and Incremental Models for software development	08	CO1	2
ii)	Describe Version Control and Change Control configuration management	08	CO4	2
iii)	Explain Architecture Patterns with example	08	CO5	2
Q.4	Solve any two questions out of three.	16		
i)	Describe User Interface Design with example	08	CO2	2
ii)	Explain PMBOK Knowledge areas in project management	08	CO3	2
iii)	Explain Challenges of Monolithic and micro services Architectures	08	CO6	2