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

| May-June 2023-2024 |
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| (B.Tech / M.Tech.) Program: Information Technology  Scheme: II |
| Regular Examination: TY  Semester: VI |
| Course Code: **ITC603** and Course Name: Advance Software Engineering and Project Management |

| Date of Exam:27/05/2024 | Duration: 02.5 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) | Explain Capability Maturity Model (CMM) | 2 | CO1 | U |
| ii) | Define pattern with example | 2 | CO2 | U |
| iii) | Explain need of project management | 2 | CO3 | U |
| iv) | Explain software Reliability | 2 | CO4 | U |
| v) | Define pattern and Architecture | 2 | CO5 | U |
| vi) | Explain benefits from Micro Services | 2 | CO6 | U |
| vii) | Explain the purpose of Agile methodology | 2 | CO1 | U |
| viii) | Explain risk projection | 2 | CO4 | U |
| **Q.2** | **Solve any four questions out of six.** | **16** | | |
| i) | Explain V-Model for software development | 4 | CO1 | U |
| ii) | Explain Use case analysis design model with example | 4 | CO2 | U |
| iii) | Describe 4 P's management spectrum | 4 | CO3 | U |
| iv) | Describe Formal Technical Review (FTR) method | 4 | CO4 | U |
| v) | Explain Client Server and Language based Architectures style | 4 | CO5 | U |
| vi) | List and explain 4 reasons to go for a micro-services architecture | 4 | CO6 | U |

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| Q.3 | Solve any two questions out of three. | 16 | | |
|---|---|---|---|---|
| i) | Describe incremental processing model in details | 8 | CO1 | R,U |
| ii) | The change control process and Version Control | 8 | CO4 | R,U |
| iii) | Describe any three Classification of Architecture Styles | 8 | CO5 | R,U |
| Q.4 | Solve any two questions out of three. | 16 | | |
| i) | Explain interface design evaluation cycle | 8 | CO2 | R,U |
| ii) | Explain Project Management Body of Knowledge (PMBOK) areas | 8 | CO3 | R,U |
| iii) | Describe Micro Services and Monolithic Architectures in details | 8 | CO6 | R,U |

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