

IMSc CS (Rep) Sem.-6 Examination

Software Engineering

January-2025

[Max. Marks : 70]

Time : 3-00 Hours]

- Q.1 Attempt Any Two 14
- Explain with figure elements of requirement analysis.
 - Explain Waterfall Process model.
 - Explain in brief design pyramid for WebApp.
- Q.2 Attempt Any Two 14
- What is architecture? Explain architectural styles with figure
 - Explain SCRUM with figure.
 - Explain Fundamental Design Concepts
- Q.3 Attempt Any Two 14
- Explain Metrics, Measure and Indicator.
 - Explain Inception, Elicitation, Elaboration and Negotiation tasks of requirement engineering in brief
 - Explain with figure MVC architecture
- Q.4 [A] Attempt Any One 6
- Explain the importance of formal technical reviews in software quality improvement.
 - Explain in detail defect amplification model
- [B] Attempt Any Four 8
- Explain Quality Dimensions for software quality
 - List out Major Software Quality Assurance (SQA) Activities
 - Explain linear structure content Architecture
 - What is informal review?
 - List out navigation syntax
- Q.5 [A] Attempt Any Three 12
- Distinguish between alpha and beta testing
 - Distinguish between White Box Testing and Blackbox Testing.
 - Explain integration testing.
 - What is cyclomatic complexity? How to compute the cyclomatic complexity?
- [B] Explain Grid structure content architecture 2