

IM.Sc (CS) Sem.6, Examination
Software Engineering
June-2025

Date : 23/6/2025, Monday

Time : 3-00 Hours]

[Max. Marks : 70

Instructions:

- Write both the Sections in the separate answer book.
- Both Sections having equal weightage.
- Draw Diagrams wherever necessary.
- Make Assumptions wherever necessary.

SECTION – I

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| Q-1 | Discuss the following | 07 |
| | a) Legacy software | |
| | b) Agility and the cost of change | |
| Q-2 | a) Explain the general principles proposed by David Hooker. | 07 |
| | b) Briefly explain waterfall model. | 07 |
| OR | | |
| Q-2 | a) Explain principles of deployment in detail. | 07 |
| | b) Discuss the characteristics of a well-formed design class. | 07 |
| Q-3 | a) Discuss any seven architectural genres for software based system. | 07 |
| | b) Discuss the types of cohesion in detail. | 07 |
| OR | | |
| Q-3 | a) Explain the golden rule "Place the User in Control" in detail. | 07 |
| | b) Briefly explain packaging principles that are applicable to component level design. | 07 |

SECTION – II

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|-----|---|----|
| Q-4 | Discuss following terms | 07 |
| | a. Validation | |
| | b. Verification | |
| | c. Baseline | |
| | d. Indicator | |
| | e. Abstraction | |
| | f. Cohesion | |
| | g. Component | |
| Q-5 | a) What are the major attributes of quality for webapp? | 07 |
| | b) Explain ISO 9126 quality factors in detail. | 07 |
| OR | | |
| Q-5 | a) Explain design goals for webapps. | 07 |
| | b) Discuss the layout issues in aesthetic design. | 07 |
| Q-6 | a) How function point is calculated? Explain. | 07 |
| | b) Write down the difference between black-box testing and white-box testing. | 07 |
| OR | | |
| Q-6 | a) Explain security and performance testing. | 07 |
| | b) Explain in detail features of SCM. | 07 |