

MCS-213

MASTER OF COMPUTER APPLICATIONS (MCAOL)
SOFTWARE ENGINEERING

Time : Three Hours

Maximum Marks : 100

Note : There are 3 Sections in this question paper. Attempt all the Sections.

Section-I (Short Answer Type Questions) ($5 \times 4 = 20$)

Attempt any five questions. Each question carries 4 marks.

1. Explain Waterfall model.
2. What is meant by SRS? Write any three issues that make requirements analysis difficult.
3. Explain the process of design of software.
4. Define the term 'Quality'. Write any three attributes of quality.
5. Explain the need for project metrics. Explain any one product metrics.
6. Explain any two ways to prioritise risks.
7. Explain the process of computing cyclomatic complexity using an example.

Section-II (Medium Answer Type Questions) ($5 \times 10 = 50$)

Attempt any five questions. Each question carries 10 marks.

8. What is meant by software change control? Write and explain the format for software change request.
9. Explain the characteristics of a web application.
10. Explain the process of using android wireframe effectively.
11. Explain any two categories of CASE Tools.

12. Explain the phase wise strategy followed for Cleanroom software development.
13. Explain various levels of SEI-CMM.
14. What are Low Code and No Code (LCNC) platforms? What are their advantages.

Section-III (Long Answer Type Questions) (2×15=30)

Attempt any two questions. Each question carries 15 marks.

15. Explain various phases involved in Data Science Process.
16. Explain COCOMO Model.
17. Explain any two types of prototypes. Also, write their advantages and disadvantages.