MSCCS-09/MSCCS-203/MSCCSC-203/MCA-203

June - Examination 2026

MSCCS (Final)/MCA (IInd Year) Examination

Software Engineering

Paper : MSCCS-09/MSCCS-203/MSCCSC-203/MCA-203

[*Time: **3** Hours*] [*Maximum Marks: **80***]

Note :- The question paper is divided into three Sections A, B and C. Write answers as per the given instructions.

Section-A 8×2=16

(Very Short Answer Type Questions)

Note :- Answer **all** questions. As per the nature of the question delimit your answer in one word, one sentence or maximum up to **30** words. Each question carries **2** marks.

1. (i) What is the role of software engineer?

   (ii) Define Prototyping.

   (iii) What are the stages in 4GL techniques?

   (iv) Define the term risk management.

   (v) What do you understand by software reuse?

   (vi) Define Integration testing.

   (vii) What are the types of failure that affect the reliability of system?

   (viii) What is the role of User Interface in software design?

Section-B 4×8=32

(Short Answer Type Questions)

Note :- Answer **any four** questions. You have to delimit your each answer maximum up to **200** words. Each question carries **8** marks.

2. Define Structured Analysis. Explain Data Flow Diagram (DFD).
3. Explain risk-based specification.
4. What is Software Development Technique? Explain its types.
5. Explain the process of Spiral model.
6. Define Design concept. Explain Principles of Design.
7. What are the three stages of Static analysis? Explain.
8. Explain the differences between Reliability and Quality.
9. Explain different types of Software myths.

Section-C

2×16=32

(Long Answer Type Questions)

Note :- Answer **any two** questions. You have to delimit your each answer maximum up to **500** words. Each question carries **16** marks.

10. What is Software product? Explain in detail, the qualities will be in a software product.

11. Explain Waterfall model. Discuss advantages and disadvantages of Waterfall model also.

12. Define Software cost estimation. Explain the transparent cost COCOMO model of cost estimation.

13. What is Capability Maturity Model Integration (CMMI)? Explain the levels of CMM.
