

MSCCS-09/MSCCS-203/MCA-203

December - Examination 2019

MSCCS-Final/MCA-IIInd Year Examination**Software Engineering****Paper - MSCCS-09/MSCCS-203/MCA-203****Time : 3 Hours]****[Max. Marks :- 80**

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

Section - A**8 × 2 = 16****(Very Short Answer Questions)**

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

1.
 - i. What is cyclomatic complexity?
 - ii. List any two functions of project planning.
 - iii. What is Coupling? Give an example.
 - iv. What do you mean by Test Case? Give an example.
 - v. List any two issues that affect code quality.
 - vi. List all the stages of the Waterfall Model.
 - vii. What do you mean by Data Dictionary?
 - viii. What is a software requirement? Also, give an example.

Section - B**4 × 8 = 32****(Short Answer Questions)**

Note: Answer **any four** questions. Each answer should not exceed 200 words. Each question carries 8 marks.

2. Describe size-oriented metrics and function-oriented metrics with suitable examples.
3. What is the Software Requirement Specification? Explain the characteristics of a Software Requirements Specification.
4. Discuss important factors to be considered in user interface design. Also discuss User interface Design principles in details.
5. Explain the disadvantages of the convention waterfall model.
6. Briefly, explain the various levels of CMMI Model.
7. What do you mean by software quality assurance?. Also, explain with a suitable example.
8. What are functional and non-functional requirements in software engineering? Explain their various types respectively.
9. Why Re-engineering is required? Explain with suitable example.

Section - C**2 × 16 = 32****(Long Answer Questions)**

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

10. Explain the COCOMO model in detail.
11. Distinguish between black box testing and white box testing. Discuss with the help of an example.
12. What are the case tools? Explain its levels and features.
13.
 - i. Write a detailed note on the Spiral Model.
 - ii. Explain in detail about object modeling using UML.