

**MSCCS-09/MSCCS-203/MCA-203**

December - Examination 2018

**MSCCS-Final/MCA-IIInd Year Examination  
Software Engineering****Paper - MSCCS-09/MSCCS-203/MCA-203****Time : 3 Hours ]****[ Max. Marks :- 100**

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

**Section - A****10 × 2 = 20**

(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 Software Development Life Cycle?
- (ii) Give an example of generalization.
- (iii) Define Stakeholder.
- (iv) List the reasons for the Failure of Water Fall Model.
- (v) What do you mean by functional requirements?
- (vi) Give the examples of Test Case.
- (vii) What is pseudo code?
- (viii) Define Software Engineering.

- (ix) What is Project Milestones?
- (x) What is cohesion?

**Section - B****4 × 10 = 40**

(Short Answer Questions)

**Note:** Answer **any four** questions. Each answer should not exceed 200 words. Each question carries 10 marks.

- 2) Write short note on Object oriented modelling.
- 3) What is Quality Assurance (QA)? Differentiate between Verification and Validation.
- 4) List and explain different types of testing done during the testing phase.
- 5) Explain various software metrics and measures for software cost estimation with suitable example.
- 6) What do you mean by the term 'data dictionary' in the context of structured analysis? How is the data dictionary useful in different phases of the life cycle of a software product?
- 7) What do you understand by software quality assurance? How is it achieved?
- 8) What do you mean by version control? Why is it considered important in large software project?
- 9) What is Software Evolution? How are software components reused? Explain briefly.

**Section - C****2 × 20 = 40**

(Long Answer Questions)

**Note:** Answer **any two** questions. You have to delimit your each answer maximum upto 500 words. Each question carries 20 marks.

- 10) What are the purposes of Data Flow diagrams, Entity-Relationship diagrams? Give an example diagram of each.
- 11) Explain Prototyping Process. What are the advantages and disadvantages?
- 12) What do you mean by cyclomatic complexities of a program? How is it computed? Illustrate the computation using three containing (i) sequential, (ii) if-then-else, and (iii) while blocks.
- 13) Write short note on the following:
  - (i) 4GL Techniques
  - (ii) Rapid Application Development (RAD)

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