

**MSCCS-09**  
December - Examination 2016  
**MSCCS (Final) Examination**  
**Software Engineering**  
**Paper - MSCCS-09**

**Time : 3 Hours ]**

**[ Max. Marks :- 100**

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**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 Type 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 the role of software engineer?
- (ii) List the qualities of software products.
- (iii) What is Boundary Value Analysis?
- (iv) What is the software test plan?
- (v) List the stages of the "Waterfall Model".
- (vi) What do you mean by Transient failure?
- (vii) Give the advantages of object oriented modelling.

- (viii) Discuss the symbols used in Data flow diagram.
- (ix) When does project milestone should be established?
- (x) What to you mean by “Modularity”?

**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) What are software myths? Discuss various software myths.
- 3) Explain the need and characteristics of a good SRS.
- 4) How failures affect the reliability of a system? Discuss various type of failure in a system.
- 5) Explain prototyping process with its advantages and disadvantages.
- 6) What is RAD process model? Explain when do we need RAD process model.
- 7) How we determine software quality and organization effectiveness? Explain.
- 8) Distinguish between Black box testing and White box testing.
- 9) Write short note on software - Re-engineering.

**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 is the importance of project scheduling in software engineering? What are the factors that affect project scheduling?
- 11) What are the objectives of project planning? Explain the various activities associated with project planning.
- 12) How we can design a test case? Discuss all types of testing techniques.
- 13) Write short note on the following:
  - (i) COCOMO model
  - (ii) CMM (Capability Maturity Model)

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