

MSCCS-09/MSCCS-203/MCA-203

December - Examination 2017

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 the 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 up to 30 words. Each question carries 2 marks.

- 1) (i) Define software.
- (ii) Define testing fundamental.
- (iii) What is the relationship between analysis and design?
- (iv) What do you understand by software component reuse?
- (v) Write the software quality factors.
- (vi) What is process classification?
- (vii) What do you understand by validation activities?

- (viii) What is the software productivity?
- (ix) Define risk management
- (x) What do you understand by prototyping?

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) Distinguish functional and non-functional requirement of software.
- 3) Explain the software characteristics.
- 4) What is user interface specification?
- 5) What are software development technique? Explain.
- 6) Explain the methods of test case design.
- 7) What do you mean by quality assurance? How quality assurance is did in software development?
- 8) What do you understand by process and its quality? Explain.
- 9) What are the advantages and disadvantages of incremental model?

Section - C

2 × 20 = 40

(Long Answer Questions)

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

- 10) What is capability maturity model? Explain the structure and levels of CMM.
 - 11) Explain following:
 - (i) Function-orientated software design
 - (ii) Object-oriented software design
 - (iii) Data-oriented software design
 - (iv) Data-flow oriented software design.
 - 12) Explain the Life Cycle of Software.
 - 13) What are levels of testing? Explain black box and white box testing with suitable example.
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