MSCCS-09/MSCCS-203/MCA-203

June - Examination 2018

MSCCS-Final/MCA-IInd 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 $10 \times 2 = 20$
(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) List the aims of Software Engineering.

   (ii) What is Software Reliablity?

   (iii) What is Checkpointing?

   (iv) List the issues that affect code quality.

   (v) What is Software Re-engineering?

   (vi) Give the examples of size-oriented metrics used in software measurement.

   (vii) What is the aim of Feasibility Study in Software Engineering?

(viii) Name different symbols used in DFD with its meaning.

(ix) What is Coupling?

(x) List the four phases of Spiral Model.

Section - B $4 \times 10 = 40$
(Short Answer Questions)

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

2) What is Software Product? Explain the qualities of software product in detail.

3) How to identify Software Requirements? Differentiate between functional Requirements and Non-Functional Requirements.

4) Distinguish between Black Box Testing and White Box Testing.

5) What do you mean by Software Evolution? Also explain the Eight Lehman's laws that are used to identify a set of behaviours in the evolution of proprietary software.

6) Write short note on COCOMO Model.

7) What is RMMM? Discuss its role in project management.

8) Discuss important factors to be considered in user interface design. Also discuss User interface Design principles in details.

9) What is SRS? Explain the characteristics of a Software Requirements Specification.

Section - C $2 \times 20 = 40$
(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 relational ship between Software Analysis and Software Design? Discuss various tools and diagramming aids used for design.

11) Explain waterfall model. What are the advantages and disadvantages?

12) What do you mean by Test Case? Describe various techniques that can be used to select test cases in functional testing with suitable examples.

13) What is the role of CMMI in process improvement? Explain different levels of the CMM in detail.

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