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Roll No.

MCS-503

Software Engineering

Master of Computer Application (MCA-20)

1st Semester, Examination June 2022

Time : 2 Hours

Max. Marks:80

Note : This paper is of eighty (80) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

Section-A

(Long Answer-type questions)

Note: Section 'A' contains Five (05) long-answer-type questions of Twenty (20) marks each. Learners are required to answer any two (02) questions only.

(2 x 20=40)

Q.1 Explain the significance of software engineering. Discuss the advantages of using any software standard for software development.

Q.2 Differentiate between structured analysis and structured design in context of function oriented design.

P.T.O.

- Q.3 What are the characteristics of good software design? Discuss various phases of design process? How design evaluation is performed?
- Q.4 What is software life-cycle model? Briefly explain the prototype life cycle model and software specification?
- Q.5 What is the Testing? Explain the difference between black box and white box testing?

Section-B

(Short Answer-type questions)

Note: Section 'B' contains Eight (08) short-answer-type questions of Ten (10) marks each. Learners are required to answer any four (04) questions only.

(4 x 10=40)

- Q.1 Discuss the COCOMO model along with the parameters defined in it.
- Q.2 Explain user interface design. What are the types of user interfaces?

P.T.O.

- Q.3 What do you understand by Software project monitoring and control? Explain.
- Q.4 What do you understand by software reliability and quality management? Explain ISO 9001 certification?
- Q.5 What do you understand by Staffing level estimation and scheduling? Explain.
- Q.6 Explain Software Quality Assurance. List various ways to check the quality of the software.
- Q.7 What is software maintenance? Explain the characteristics of Software Maintenance.
- Q.8 What is the difference between Risk Management and Software Configuration Management?
