

Total No. of Pages : 04

Roll No.

MCA-17
Software Engineering
Master of Computer Application
(MCA-11/16/17)
Fifth Semester
Examination-2019

Time : 3 Hours

[Maximum 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 Fifteen (15) marks each. Learners are required to answer any three (03) questions only. **(3×15=45)**

1. Describe two examples of software projects that would be amenable to the water fall model.

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(2)

2. Discuss some of the problems that occur when requirements must be elicited from three or four more customers.
3. What is the need for software engineering ? Discuss the concept of database engineering, reverse engineering and forward engineering.
4. Discuss the need and role of quality assurance metrics in details.
5. List and explain different types of testing done during the testing phase.

Section–B

(Short-Answer-Type Questions)

Note : Section 'B' contains Eight (08) short-answer-type questions of Seven (07) marks each. Learners are required to answer any Five (05) questions only. **(5×7=35)**

1. What are the major advantages of first constructing a working prototype before developing the actual product?
2. How can we characterize a good software design?
3. What are the main advantages of using an object oriented approach to software design over a function oriented approach?

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4. What activities are addressed during each iteration of the Agile Unified Process?
5. Why is feedback important for software team?
6. What kind of errors are sought during requirements validation.
7. What is a CASE tool?
8. Differentiate between verification and validation.