

[Total No. of Questions - 9] [Total No. of Printed Pages - 2]
(2124)

1801

MCA 5th Semester Examination
Software Quantity Assurance (NS)

MCA-E54

Time : 3 Hours

Max. Marks : 60

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt five questions in all, select at least one question from each sections A, B, C & D. While section E is compulsory.

SECTION - A

1. What are the different factors which affect the software quality assurance efforts? Explain in detail. (12)
2. Explain software Quality Assurance activities. (12)

SECTION - B

3. What is Halstead's metric? How Halstead's software metric can be useful in software quality assurance? (12)
4. Discuss the capability Maturity Model. Explain different levels of CMM in detail. (12)

SECTION - C

5. What is the role of testing in software development, maintenance and operations? (12)
6. Define software testing. Explain equivalence partitioning and boundary value analysis testing techniques. (12)

[P.T.O.]

SECTION - D

7. Define path adequacy criterion. Explain condition and path testing analysis of structural testing with an infeasibility problem. (12)
8. Define software metrics. Explain the types of metrics used in software testing. (12)

SECTION - E

9. Define the following:
 - (a) Software testing.
 - (b) Software quality assurance.
 - (c) Software Metrics.
 - (d) Test cases.
 - (e) Software standards.
 - (f) Unit testing.
 - (g) Hybrid metrics.
 - (h) Measure of quality.
 - (i) Name two factor affecting test effort.
 - (j) Data flow testing.
 - (k) Software quality models.
 - (l) Testing limitations. (12×1=12)
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