

Total No. of Questions : 12]
P1943

SEAT No. :
[Total No. of Pages : 3

Nov-15

[4861]-502

T. Y. M.C.A. (Under Engineering Faculty)
SOFTWARE TESTING AND QUALITY ASSURANCE
(2013 Course) (Semester - V) (510902)

Time : 3 Hours]

[Max. Marks : 50

Instructions to the candidates:

- 1) Neat diagrams must be drawn wherever necessary.
- 2) Figures to the right side indicate full marks.
- 3) Assume Suitable data if necessary.

- Q1) a) Explain process maturity? Explain any process maturity measurement technique. [4]
b) What is SQA? What are the building blocks of SQA. [4]

OR

- Q2) a) Write a short note on Six Sigma Principles and Software Quality Assurance. [4]
b) Write a short note on CMMI. [4]

- Q3) a) Explain the V-model in detail, give the advantages & disadvantages of it. [4]
b) Define the term Test-Case Document. Design the test case for following form. [4]

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OR

- Q4) a) What is Verification and Validation? Give the differences between verification and validation. [4]
b) What is software testing? Explain the testing life cycle in detail. [4]

- Q5) a) What is White-Box Testing? Give the classification of white-box testing, and explain its sub types in detail. [5]
b) What are the differences between white box testing and black box testing (at least 8 points). [4]

OR

- Q6) a) Write a c code to check whether the given year is leap year or not. Draw the control flow graph for it, and find cyclomatic complexity number from it. [5]
b) Write a short notes on: [4]
i) Boundary Value Analysis.
ii) Equivalence Partitioning.

- Q7) Write short note on (any Two): [8]

- a) Integration Testing
- b) Regression Testing
- c) Validation Testing

OR

- Q8) a) State & Describe Unit testing. [4]
b) Explain System & Acceptance Testing. [4]

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- Q9) a) What is Defect? Explain Defect Lifecycle. [5]
b) Explain Role of tester for Defect Repository. [4]

OR

- Q10) a) Explain Database testing. [5]
b) Explain Testing web based application. [4]

- Q11) a) What is selenium? Explain Selenium IDE. [4]
b) Define Automation Testing. Explain different automation tools. [4]

OR

- Q12) a) Differentiate between manual testing and Automated testing. [4]
b) Explain RC and Grid components of Selenium. [4]