

Total No. of Questions : 12]

SEAT No. :

P3013

[Total No. of Pages : 2

B.E. (Semester - I)
COMPUTER ENGINEERING
Software Testing & Quality Assurance
(2008 Pattern) (Elective - II)

Time : 3 Hours]

[Max. Marks : 100

Instructions to the candidates:

- 1) Answers to the two sections should be written in separate answer books.*
- 2) Answer three questions from Section-I and three questions from Section-II.*
- 3) Neat diagrams must be drawn wherever necessary.*
- 4) Figures to the right side indicate full marks.*
- 5) Assume Suitable data if necessary.*

SECTION - I

- Q1)** a) What is Software testing? What are the phases in software testing? [8]
b) Explain in detail the test plan. [8]

OR

- Q2)** a) Explain the Defect Life Cycle. [8]
b) What is an importance of testing in software productions cycle? [8]

- Q3)** a) Explain black box testing and the importance of black box testing. [8]
b) Explain Positive and Negative testing. [8]

OR

- Q4)** a) Explain Boundary Value Analysis with an example. [8]
b) Explain for an example how state based or graph based testing is done. [8]

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- Q5)** a) Explain white box testing and types of white box testing. [10]
b) How are object oriented systems tested? [8]

OR

- Q6)** a) Explain the significance of cyclomatic complexity in Path testing. [10]
b) Explain Mutation testing with an example. [8]

SECTION - II

- Q7)** a) Explain Goal Question Metric model with an example. [10]
b) Explain GUI Testing. Why is it important to do GUI testing? [8]

OR

- Q8)** a) Explain Random Testing and Adhoc Testing. [8]
b) Explain in brief the different measurement tools. [10]

- Q9)** a) What is Six Sigma and explain how Six Sigma improves the quality of the software. [8]
b) Comment on Manual Testing and Automated Testing. [8]

OR

- Q10)**a) Explain the different software quality attributes. [8]
b) Explain the ISO model for software quality. [8]

- Q11)**a) Explain how to use Rational Robot to perform functional testing. [8]
b) Explain Validation testing. [8]

OR

- Q12)**a) Explain Web based testing for a web application. [8]
b) Explain in brief Winrunner and Loadrunner tool. [8]

