

Total No. of Questions : 12]

SEAT No. :

P1458

[4759] - 215

[Total No. of Pages :3

B.E. (Computer Engineering)
SOFTWARE TESTING AND QUALITY ASSURANCE
(2008 Course) (Semester - I) (Elective - II) (410445)

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 verification and validation? Compare with examples. [8]
b) Explain the software testing life cycle. [8]

OR

- Q2)** a) Give the importance of Software testing in Software Production cycle. State the principles of Software Testing. [8]
b) Explain the defect report with an example. [8]

- Q3)** a) Explain the graph based and boundary value analysis testing methods with examples. [10]
b) Explain test case design for online login and order operations. [8]

OR

- Q4)** a) What is the need of black box testing? Compare with white box testing with methods. [10]
b) Explain with purpose domain testing and documentation testing. [8]

P.T.O.

- Q5)** a) Explain any two coverage testing methods. [8]
b) How do you derive test cases in loop testing? Explain with example. [8]

OR

- Q6)** a) Explain the need and application of white box testing with two methods. [8]
b) Explain object oriented testing method. [8]

SECTION - II

- Q7)** a) Explain the project and productivity testing metrics. [8]
b) Explain the GUI testing and scenario testing. [10]

OR

- Q8)** a) Describe sanity testing and validation testing. [10]
b) Explain how measurement tools and metrics improve the testing process. [8]

- Q9)** a) Explain the GQM metric and Quality control. [8]
b) Explain the quality factors in Quality management. [8]

OR

- Q10)** a) Explain in brief. [12]
i) Six Sigma
ii) Software Quality Assurance
iii) TQM
b) How cost of quality influences quality management? [4]

- Q11)a)** Explain the manual testing with example and test cases. [8]
- b) How automation helps in testing? Explain with a tool. [8]

OR

- Q12)a)** Explain the features of a testing tool for functional testing. [8]
- b) Explain GUI testing with a testing tool. [8]

