

Total No. of Questions : 12]

SEAT No. :

P856

[4659]-234

[Total No. of Pages : 2

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

Time : 3Hours]

[Max. Marks :100

Instructions to the candidates:

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

SECTION-I

Q1) a) What is software Testing? What is the need of software testing in software production cycle? **[8]**

b) Explain the phases of software testing. **[8]**

OR

Q2) a) Explain the contents of Test Plan in IEEE format. **[8]**

b) Describe the defect life cycle. **[8]**

Q3) a) Explain the following in brief: **[10]**

i) Verification and validation.

ii) Cause effect diagram.

b) Give the test case design for ATM operations. **[8]**

OR

Q4) a) What is black box testing? Explain any two methods of black box testing. **[10]**

b) Explain positive and negative testing. **[8]**

P.T.O.

- Q5)** a) Explain the purpose of white box testing and its challenges. [8]
b) How control structure testing is done with basis path testing? [8]

OR

- Q6)** a) Describe loop testing method. [8]
b) Explain the testing of object oriented system. [8]

SECTION-II

- Q7)** a) What is testing metric? Explain the Goal question metric model. [8]
b) Explain regression and acceptance testing. [10]

OR

- Q8)** a) Describe smoke testing and ad-hoc testing. [8]
b) How GUI testing is carried out? Explain in detail with tools used. [10]

- Q9)** a) How ISO quality metric is applied for the software product? [8]
b) Explain any four quality factors. [8]

OR

Q10) Explain the following in brief: [16]

- a) Quality control
- b) Quality Assurance
- c) TQM.
- d) Measurement tools.

- Q11)**a) Explain and compare the manual and automated testing. [8]
b) Give the features of testing tools. [8]

OR

- Q12)**a) How web based application is tested? [8]
b) Explain functional testing with a tool. [8]

EEE