SEAT No. :

P3232

[4859] - 507

B.E. (Computer Engineering) (Semester - II)

SOFTWARE TESTING AND QUALITY ASSURANCE

(2003 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-book.*
2) *From section I answer (Q1 or Q2) and(Q3 or Q4) and(Q5 or Q6).*
3) *From section II answer (Q7 or Q8) and(Q9 or Q10) and(Q11 or Q12).*
4) *Assume suitable data jf necessary.*
5) *Figures to the right indicate full marks.*

SECTION - I

Q1) a) Explain representation theory of Measurement.   **[10]**

   b) Explain Objectives of software Measurement.   **[8]**

OR

Q2) a) ExplainCMM levels in details.   **[8]**

   b) Explain how to apply the framework in software quality measurement.
                                                                        [10]

Q3) a) Write a note on following :   **[8]**

   i)   Functionality

   ii) Complexity

   b) Explain Modularity and Information flow attributes.   **[8]**

OR

Q4) a) Explain what is good data, how to store and Extract data.   **[8]**

   b) Explain Object oriented Metrics.   **[8]**

P.T.O.

Q5) a) Explain Incremental testing strategy. **[10]**

b) Enlist difference between Black box and White box testing. **[6]**

OR

Q6) a) What is defect, Defect classes and Defect Repository. **[6]**

b) What Goal-Question-Metric Model. **[10]**

SECTION - II

Q7) Write short note on : **[18]**

a) Usability Testing

b) Ad-hoc Testing

c) Regression Testing

OR

Q8) Write short note on : **[18]**

a) Execution and Reporting

b) Specification Based Testing

c) Performance testing

Q9) a) Write in details about Ishikawa's Basic tools. **[8]**

b) Define Quality, Quality control and assurance and cost of quality. **[8]**

OR

Q10) a) Explain effects of ISO quality model on software quality. **[8]**

b) Explain software Audit and its significance. **[8]**

Q11) a) Explain role of support Analysis. **[8]**

b) Explain Challenges and best practices in Problem reporting. **[8]**

OR

Q12) a) Explain Logistic and Tooling in Problem reporting. **[7]**

b) Explain problem Resolution. **[9]**

⌘⌘⌘