SEAT NO. :

[4366]- 505
TYMCA (Engg. Faculty)
SOFTWARE TESTING(Elective-II)
(Semester - V) (2008 Pattern) (710905)
MAY 2013 EXAMINATIONS

Time: 3 Hours]

[Max. Marks : 70

Instructions to the candidates:
1) Answer 3 questions from Section – I and Section - II.
2) Answers to the two sections should be written in separate answer books.
3) Neat diagrams must be drawn wherever necessary.
4) Assume Suitable data if necessary.

SECTION I

Q1) a) What is software measurement? Explain its classification in detail.   [8]

b) Explain representation theory of measurement.   [4]

OR

Q2) a) What is data? Explain how to collect, store and extract data.   [8]

b) Explain four principles of investigation.   [4]

Q3) a) Explain in detail Halstead software science.   [8]

b) Differentiate time and space complexity.   [3]

OR

Q4) a) Explain object oriented metrics in detail   [8]

b) Explain Goal Question Metric paradigm.   [3]

Q5) a) What are the steps involved in preparation of test plan? Explain the steps briefly.   [8]

b) Explain organization structure for testing teams.   [4]

OR

Q6) a) Explain different type of defects. What is defect repository? Also explain how defect repository provides support to developer/tester.   [6]

b) What is Test case and Test suit? Explain it in detail.   [6]

SECTION II

| | a) | Explain the need of test plan in software testing. | [5] |
| | b) | What is meant by testing defects? Explain it in detail. | [7] |

OR

| | a) | Distinguish between White Box testing and Black box Testing. What is use of structural testing? | [6] |
| | b) | Explain different types of static analysis tools. | [6] |

| 9) | a) | Write short note on: | [6] |

i) Validation Testing

ii) Unit Testing

| | b) | What is domain testing? Explain its use. | [5] |

OR

| 10) | a) | Explain the need of adhoc testing. | [5] |
| | b) | Write short note on: | [6] |

i) Integration Testing

ii) Specification based testing

| 11) | a) | What are the challenges and best practices encountered in problem resolution? | [6] |
| | b) | Explain Testing the shipment unit. | [6] |

OR

| 12) | a) | Explain the different tools and repositories present in problem reporting phase. | [8] |
| | b) | Explain the best practices which should be followed to improve fix distribution activity. | [4] |