

Roll No.

23073

**M. Tech. 2nd Semester (Computer Engg.)
Examination – December, 2014**

SOFTWARE VERIFICATION VALIDATION & TESTING

Paper : MTCE-608-A

Time : Three Hours]

[Maximum Marks : 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt any *five* questions. All questions carry equal marks.

1. (a) What is the Psychology while testing a software ? 10
(b) What is meant by Effective Testing ? Discuss limitation of Testing. 10
2. (a) What is a good Test Case ? Explain Various Testing Principles. 10
(b) What is a Bug ? What are its various stages during its life cycle ? 10

3. Explain the following : 20
- (i) Verification of Low Level Design,
 - (ii) Verification of Data Design.
4. Explain : 20
- (i) Basic Path Testing,
 - (ii) Mutation Testing.
5. Give a complete description about Black Box Testing. 20
6. (a) Explain in detail the Structured Walk Through. 10
- (b) What is Static Testing ? Explain the types of Static Testing. 10
7. (a) What is Stress Testing and Performance Testing ?
What is the difference between two. 10
- (b) What is Integration Testing ? What types of errors are detected during integration testing ? 10
8. Explain : 20
- (i) Tools Debugging,
 - (ii) Test Case Management.