

Roll No. ....

**23073**

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

**SOFTWARE VERIFICATION VALIDATION &  
TESTING**

**Paper MTCE-608-A**

**Time : 3 hours**

**Max. Marks : 100**

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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 the examination.

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

1. (a) What is a Hood Test Case ? Explain various testing principles. 10
  
- (b) Differentiate between effective testing and exhaustive testing. 10

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1. (a) What is a Hood Test Case ? Explain various testing principles. 10
  
- (b) Differentiate between effective testing and exhaustive testing. 10

2. (a) Describe how errors, faults and failures can occur in the process of programming and testing. 10
- (b) Explain the software testing life cycle model. 10
3. (a) Differentiate between verification and validation. 10
- (b) Explain the verification of user interface design with the help of suitable example. 10
4. Explain the following :
- (i) Error guessing. 10
- (ii) State table based testing. 10
5. Give a complete description about white box testing. 20
6. (a) What is static testing ? Explain the advantages of static testing and dynamic testing. 10

- (b) What do you mean by structured walk through ? 10
7. Explain : 20
- (i) Stress testing
  - (ii) Recovery testing
8. (a) Explain some important testing metrics. 10
- (b) How do you reduce test cases for software testing ? 10
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