

Roll No .....

**MSE-204****M.E./M.Tech., II Semester**

Examination, December 2017

**Software Verification Validation and Testing***Time : Three Hours**Maximum Marks : 70**Note:* i) Attempt any five questions out of eight.

ii) All questions carry equal marks.

1. a) Explain defect management process approach and defect fixing process.  
b) What is Agile methodology and explain its impact on testing.
2. a) Explain testing life cycle with diagram.  
b) Write the difference between execution and non-execution based testing. Give suitable examples.
3. a) How do you prepare classes in equivalence class partitioning method? Give example of designing test cases with this method.  
b) Explain control flow and data flow testing briefly.
4. a) Explain the types of structural system testing during implementation with example.  
b) What is integration testing? Why it is necessary? Explain Top-down integration and discuss the problems with top-down integration.

MSE-204

PTO

434

5. a) Discuss the entrance and exit criteria for validation testing.  
b) Distinguish between testing techniques and tools. Give examples.
6. a) Explain the various functional and unit testing techniques in detail.  
b) Give the importance of documentation in testing specialized systems.
7. a) Explain the II-step software testing process with neat diagram.  
b) Explain partial regression testing. Discuss the regression faults with examples.
8. Explain the following:
  - a) Gorilla testing
  - b) Test Director and Test plans
  - c) Bottom up testing
  - d) Stress and security testing

\*\*\*\*\*

435

MSE-204