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Roll No

MCTA/MCIT-302(A) M.E./M.Tech. III Semester

Examination, November 2018

Software Testing and Quality Assurance

(Elective)

Time: Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.

ii) Each question carry equal marks.

1. Explain the difference between the following:

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- a) Functional Testing and Structural Testing
- OOA and OOD testing models
- White Box Vs. Black Box testing
- Integration Testing and Incremental Integration Testing.
- 2. What defect types are most likely to be detected during integration tests of a software system? Describe your choices in terms of both the nature of integration test and the nature of the defect types you select? 14
- 3. Explain the following:

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- Statement coverage
- Decision coverage
- Condition coverage
- Defect density

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4	a)	List all the requirements of ISO 9000 and ISO 9001.	7
4.	a)	List all the requirements of 150 9000 and 150 9001.	- /

- b) Write down the test cases to test the calculator program in windows.
- 5. Check the cyclometric complexity for a program of adding 100 integers. It should also check for valid boundaries and valid values. Design the test cases for such code.
- 6. a) What do you mean by SQA? Explain various activities involved in SQA process in detail.
 - Explain that how software testing is associated with software quality assurance.
- 7. a) Product requirements are incomplete and ambiguous. What are the other sources of information you will use to understand requirements better.
 - Explain productivity model to measure the cost and productivity of the software. 7
- Explain boundary value analysis with example. 7
 - Write a note on: 7
 - Cause and effect diagrams
 - ii) Product Quality metrics

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