



SD-3890

**M. Sc. (I.C.T.) (Sem. II) Examination**  
**April / May - 2011**  
**Software Testing & Quality Assurance**

Time : 3 Hours]

[Total Marks : 70

**Instructions :**

(1)

नीचे दर्शाविए निशानीवाणी विगतो उत्तरवही पर अवश्य कभवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="M. Sc. (I.C.T.) (SEM. 2)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="SOFTWARE TESTING &amp; QUALITY ASSURANCE"/>	<input type="text"/>
Subject Code No. : <input type="text" value="3"/> <input type="text" value="8"/> <input type="text" value="9"/> <input type="text" value="0"/>	Section No. (1, 2,.....) : <input type="text" value="NIL"/>
Student's Signature	

- (2) Attempt all questions. Question 1,2 and 3 carry 18 marks and question 4 carry 16 marks.  
(3) Draw the Figure and give example whenever necessary.

1 (A) Answer any two from the following. [12]

1. List out and explain the steps of Testing Activity.
2. Explain concept of unit testing with static and dynamic unit testing.
3. Explain Test Planning in brief.

(B) Define the following terms [06]

1. Fault
2. Failure
3. Error
4. Defect
5. Test Case
6. JUnit

2 (A) Write a short note on any one from the following. [08]

1. Control Flow Testing
2. Data Flow Testing

(B) Attempt any two from the following. [10]

1. Explain and differentiate between "Verification" and "Validation".
2. List and explain Object Oriented Testing Strategies.
3. Explain Interclass test case design.

3 Explain any six from the following concepts of Web Application testing. [18]

1. Content Testing
2. User Interface Testing
3. Component Level Testing
4. Navigation Testing
5. Configuration Testing
6. Security Testing
7. Performance Testing

- 4 (A) Explain the Modeling of Test results with the different possible states of test case results. [06]
- (B) Explain Partition Testing Method at Class Level of Object Oriented Testing. [03]
- (C) **Attempt any one from the following.** [07]
1. Mention and explain any 7 objectives of reviewing the Static Behavioral Characteristics of the System Requirements in one or two lines each.
  2. Mention and explain any 7 objectives of reviewing the Functional Specifications of the System Requirements in one or two lines each.
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