B.E. Seventh Semester (Information Technology) (C.B.S.)
Elective - II : Software Testing & Quality Assurance

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Notes : 1. All questions carry marks as indicated.
2. Solve Question 1 OR Questions No. 2.
3. Solve Question 3 OR Questions No. 4.
4. Solve Question 5 OR Questions No. 6.
5. Solve Question 7 OR Questions No. 8.
6. Solve Question 9 OR Questions No. 10.
7. Solve Question 11 OR Questions No. 12.
8. Illustrate your answers whenever necessary with the help of neat sketches.

1. a) Explain following terms: **8**

   i) Errors   ii) Faults

   iii) Defects   iv) Failures

   b) Explain central Issue is testing.   **5**

OR

2. a) Write short note on: **6**

   i) Expected outcome.   ii) Complete testing.

   b) How test Execution is monitored and measured? Explain.   **7**

3. a) Describe Dynamic unit test environment using diagram.   **7**

   b) What is debugging? Explain a debugging heuristic in detail.   **7**

OR

4. a) Write a detailed note on unit testing in extreme programming.   **7**

   b) Explain JUNIT : framework for unit testing.   **7**

5. Explain each path selection criteria in detail.   **13**

OR

6. a) Describe test data selection using example.   **6**

   b) Write a detailed note on paths in control flow graph.   **7**

7. a) Explain data flow graph in detail using example.   **7**

	b)	How comparison of data flow test selection criteria is performed? Explain.	**6**

OR

8.	a)	Describe steps involved in software ECO process along with diagram.	**7**
	b)	What is test plan for system integration? Explain contents of framework for SIT plan.	**6**
9.	a)	Describe various types of Robustness tests.	**7**
	b)	Explain in short Reliability testes, Regression tests and Documentation tests.	**7**

OR

10.	a)	Explain in detail functional specification based test case design.	**6**
	b)	What are the various levels of test execution.	**4**
	c)	Explain the necessity of test case documentation.	**4**
11.	a)	Explain in short user acceptance testing and Business acceptance testing.	**6**
	b)	Explain relationship between quality factors and criteria.	**7**

OR

12.	a)	Write a note on ISO 9126 Quality characteristics.	**6**
	b)	Explain client server testing and web application testing.	**7**

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