

SEM	SET	PAPER CODE	TITLE OF THE PAPER
IV	2013	13PCA4201C	SOFTWARE TESTING

SECTION – A**Answer all the questions:****20 x 1 = 20****Choose the correct answer:**

- Software testing is a means of making sure that the
 - Product meets the needs of the customer
 - Includes defect prevention
 - If tests the testing methods also
 - All of the above
- Integration testing means
 - Testing of interfaces
 - Testing of modules
 - Testing algorithms
 - None of these
- One of the following is not a testing tool of OO systems
 - Use cases
 - Gantt charts
 - Class diagram
 - State charts
- A test infrastructure management has
 - A text-case database
 - A defect repository
 - Configuration management repository and tool
 - All of the above
- Archival of test includes
 - What configuration variables were used
 - What scenario was used
 - What program were executed
 - All of the above

Fill in the blanks:

6. A software project is made up of requirement gathering, planning _____ development and coding, testing, deployment and maintenance.
7. The objective of _____ testing is to find out the maximum capability of the product parameters.
8. _____ design is verified through the one or many of the following means: style sheets, screen prototypes, paper designs, layout designs.
9. What needs to be tested, how testing is going to be conducted, resources needed for testing, time lines of testing are activities related to_____.
10. _____ saves time as software can execute test cases faster than humans do.

State True or False:

11. One of the fundamental principles of testing is 'Test the test first'.
12. 'Smoke testing' is part of integration testing.
13. 'Comprehensibility' is a quality factor of usability testing.
14. Metrics derive information from 'Raw data' with a view to help in decision making.
15. Automation of tests makes the test execution more person dependent.

Answer in one or two sentences:

16. What does ETVX stands for?
17. What for stress testing is done?
18. What are sticky keys?
19. Mention the terms used in size estimation.
20. What are the major classes of Metrics?

SECTION – B

Answer all the questions:

5 x 7= 35

21. a. Explain any five fundamental principles of testing.

OR

b. Explain why Black box testing is done.

22. a. Explain the approaches used to develop system scenarios.

OR

b. What are the elements of test plan meant for performance testing? Explain.

23. a. Explain the following tools of testing OO systems.

i) Use cases ii) Class diagrams.

OR

b. Discuss the testing team structure for single product companies and its advantages.

24. a. Discuss the ideas related to Activity Breakdown and Scheduling of Test Planning.

OR

b. Explain the types of Metrics.

25. a. Discuss the advantages of Automation of tests.

OR

b. What are the skills needed for automation of tests? Explain.

SECTION – C

Answer any THREE questions:

3 x 15 = 45

26. Explain the following models of SDLC.
 - i) Waterfall model
 - ii) Spiral model.
27. Discuss the ideas relating to Regression Testing.
28. Write notes on the following ideas of Testing Object-Oriented Systems.
 - (i) Unit Testing of classes
 - (ii) Integration Testing.
29. Discuss the elements of Test Management.
30. Explain the Metrics related to productivity.
