

(6 pages)

Reg. No. :

Code No. : 9923

Sub. Code : HCAE 41

M.C.A. (CBCS) DEGREE EXAMINATION,
APRIL 2015.

Fourth Semester

Computer Applications

SOFTWARE TESTING

(For those who joined in July 2012 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Integration testing comes under

- (a) CMM level 1 (b) CMM level 3
(c) CMM level 2 (d) CMM level 4

2. Beta testing will be done by

- (a) Developer (b) User
(c) Tester (d) Team leader

3. SPICE Means

- (a) Software Process Improvement and Capability Determination
(b) Software Process Improvement and Compatibility Determination
(c) Software Process Invention and Compatibility Determination
(d) Software Process Improvement and Control Determination

4. Which is black box testing method?

- (a) Equivalence partitioning
(b) Code coverage
(c) Fault injection
(d) White box

5. A metric used to measure the characteristics of documentation and code called as

- (a) Process metric
(b) Product metric
(c) Test metric
(d) None of the above

Page 2

Code No. : 9923



6. Boundary value analysis belongs to
- (a) Black box testing
 - (b) White box testing
 - (c) Performance testing
 - (d) Unit testing
7. Software testing can be done without planning and documentation is called as
- (a) Adhoc testing
 - (b) Unit testing
 - (c) Regression testing
 - (d) Functional testing
8. Variance from product specification is called
- (a) Report
 - (b) Requirement
 - (c) Defect
 - (d) Failure
9. Verification is
- (a) Product based
 - (b) Process based
 - (c) Use case based
 - (d) Scenario based

Page 3

Code No. : 9923

10. Software project risk includes
- (a) Poor software specification
 - (b) Organizational factors
 - (c) Delivered with errors
 - (d) All the above

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b), each answer should not exceed 250 words.

11. (a) Explain the phases of software project model.

Or

- (b) Compare waterfall model and iterative model.

12. (a) What are the challenges in White box testing?

Or

- (b) What is black box testing? Why it is needed?

13. (a) What skills are required to perform acceptance testing?

Or

- (b) Write a short note on Regression testing.

Page 4

Code No. : 9923
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14. (a) How do ad hoc test cases move into planned test cases over time?

Or

- (b) What is the need of object oriented testing? Explain its merits.

15. (a) Explain in detail about automation tools.

Or

- (b) Write a brief note on productivity metrics.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b), each answer should not exceed 600 words.

16. (a) Explain merits and demerits of various life cycle models.

Or

- (b) What are the measures of software quality?

17. (a) Write a note on :
(i) Static testing
(ii) Structural testing.

Or

- (b) Explain scenario testing and domain testing with an example.

Page 5

Code No. : 9923

18. (a) Distinguish between functional testing and non functional testing.

Or

- (b) Discuss on performance testing.

19. (a) Explain various phases of internationalization testing with example.

Or

- (b) Explain in detail about Ad hoc testing.

20. (a) List the common issues faced in testing teams. Explain the organization structure of testing teams.

Or

- (b) Discuss the architecture of test automation.

Page 6

Code No. : 9923

