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Reg. No. :

Code No. : 30205 E Sub. Code : GMCA 63

B.C.A. (CBCS) DEGREE EXAMINATION, APRIL 2020.

Sixth Semester

Computer Applications — Main

SOFTWARE TESTING

(For those who joined in July 2012-2015)

Time : Three hours

Maximum : 75 marks

PART A — ($10 \times 1 = 10$ marks)

Answer ALL questions.

Choose the correct answer :

1. Which of the following is not an objective of testing?
 - (a) Finding defects
 - (b) Preventing defects
 - (c) Gaining confidence in and providing information about level of quality
 - (d) Fixing defects

2. Which of the following is not a verification activity?
 - (a) Inspection
 - (b) Testing
 - (c) Walk through
 - (d) Technical review
3. Black Box Testing can be said as _____.
 - (a) Behavioural Testing
 - (b) Flow Testing
 - (c) Data Testing
 - (d) None of the above
4. What is static analysis?
 - (a) The analysis of batch programs
 - (b) The reviewing of test plans
 - (c) The analysis of program code
 - (d) The use of black box testing
5. Acceptance Testing is also called as
 - (a) Functional and non-functional Testing
 - (b) Top-down and Bottom up Testing
 - (c) Unit Testing
 - (d) User Level Testing

6. Executing the same test case on a modified build called as
 - (a) Regression Testing
 - (b) Retesting
 - (c) Ad hoc Testing
 - (d) Sanity Testing
7. Which one of these belongs to integration testing in the Object Oriented context?
 - (a) Unit testing
 - (b) Regression testing
 - (c) Sandwich testing
 - (d) Thread-based testing
8. AdHoc testing is a part of
 - (a) Unit testing
 - (b) Regression Testing
 - (c) Exploratory Testing
 - (d) Performance Testing
9. A metric used to measure the characteristic of documentation and code called as
 - (a) Process metric
 - (b) Product Metric
 - (c) Test metrics
 - (d) All the above

10. Effective testing will reduce _____ cost.
- (a) Maintenance (b) Design
- (c) Coding (d) Documentation

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) What is Testing? Explain how testing is useful in producing software.

Or

- (b) Write short notes on phases of Software project.

12. (a) When and why to do Black box testing?

Or

- (b) Explain in brief about Structural Testing.

13. (a) Mention in detail about the factors governing Performance Testing.

Or

- (b) Explain briefly about the best practices in Regression Testing.

14. (a) Write short notes on Ad Hoc Testing.

Or

- (b) Discuss in detail about the needs of Object-Oriented Testing.

15. (a) What is Test Execution? Explain.

Or

- (b) What is Software Testing Metrics?

PART C — ($5 \times 8 = 40$ marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Explain in detail about software life cycle model.

Or

- (b) Discuss in detail about :

- (i) Spiral model
- (ii) Waterfall model.

17. (a) What is white box testing? Discuss its advantage and disadvantage.

Or

- (b) Discuss in detail about Integration Testing.

18. (a) Explain in detail about Acceptance testing.

Or

(b) Discuss briefly about Regression Testing.

19. (a) Discuss in detail about Internationalization Testing.

Or

(b) Explain in detail about object oriented testing techniques.

20. (a) Explain in detail about Test Planning and Management.

Or

(b) Discuss briefly about software automation.
