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Reg. No. :

Code No. : 8928

Sub. Code : HCAE 41

M.C.A. (CBCS) DEGREE EXAMINATION,
APRIL 2014.

Fourth Semester

Computer Applications — Main

Elective — SOFTWARE TESTING

(For those who joined in July 2008–2011)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Which of the following are characteristics of testable software
(a) Observability (b) Simplicity
(c) Stability (d) All the above
2. _____ categories of data will be collected during testing.
(a) Two (b) Three
(c) Five (d) Four

3. The testing technique that require devising test cases to demonstrate that each program function is operational is called
(a) Black box testing (b) Glass box testing
(c) Grey box testing (d) White box testing
4. _____ type of errors are missed by black box testing
(a) Logical errors
(b) Typographical errors
(c) Performance errors
(d) Both (a) and (b)
5. Scenario based testing focuses on _____
(a) Concentrates on actor and software interaction
(b) Misses error in subsystem interaction
(c) Misses error in specification
(d) Both (a) and (b)
6. Test derived from behaviour class models based on
(a) State diagram
(b) Object relation diagram
(c) Data flow diagram
(d) Use-case diagram



7. Testing object oriented class operations is made difficult by

- (a) Polymorphism
- (b) Inheritance
- (c) Encapsulation
- (d) Both (a) and (b)

8. Boundary value analysis can be used in

- (a) White box testing
- (b) Black box testing
- (c) Pair testing
- (d) None of the above

9. Structure based testing is also known as

- (a) Glass box testing
- (b) Black box testing
- (c) Experienced testing
- (d) Regression testing

10. Who should be documenting the faults?

- (a) Testers
- (b) Developers
- (c) Team Members
- (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) Write a note on software life cycle model.

Or

(b) Differentiate between verification and validation.

12. (a) Explain structural testing with an example.

Or

(b) Why integration testing is necessary? Explain its merits.

13. (a) Write a note on challenges of black box testing.

Or

(b) Discuss on Functional and non-functional testing.

14. (a) List the challenges and issues faced by internationalization testing.

Or

(b) Write a note on agile and extreme testing.



15. (a) What are the skills needed for test specialist?

Or

(b) Explain the attributes of test automation.

PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Mention the characteristics of software quality. Explain in detail.

Or

(b) Explain different types of software model.

17. (a) Explain the types of white box testing.

Or

(b) Discuss in detail about integration testing.

18. (a) Compare functional and non-functional testing.

Or

(b) Write a detail note on regression testing.

19. (a) Explain in detail about ad-hoc testing.

Or

(b) Discuss in detail about various aspect of object oriented programming testing.

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20. (a) Explain the structure of testing groups.

Or

(b) Discuss about test planning and execution.

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