



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.C.A. DEGREE EXAMINATION – COMPUTER APPLICATIONS

FIFTH SEMESTER – NOVEMBER 2017

CA 5805 - SOFTWARE TESTING

Date: 02-11-2017
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

PART – A

Answer ALL questions

(10 X 2 = 20)

1. Give the application scope of adequacy criteria.
2. What are flow control units?
3. Write the levels of testing.
4. Define acceptance testing.
5. Write the steps for creating test environment.
6. Give the factors of test planning.
7. What is content page testing?
8. Define post implementation testing.
9. What is risk matrix?
10. List the activities of SQA.

PART – B

Answer ALL questions

(5 X 8 = 40)

11. a) List and explain software testing principles.
Or
b) Write note on the following:
(i) Loop testing (4 marks)
(ii) Mutation testing (4 marks)
12. a) What is Unit testing? Explain its needs and planning.
Or
b) Write note on integrated testing and its strategies.
13. a) Describe the evaluating process of test outline.
Or
b) What is a state machine? How they support the testing methodology?
14. a) Explain the features and types of performance testing.
Or
b) What is database testing? Discuss on its test cases with example.
15. a) Write note on the infrastructures of development environment.
Or
b) Elucidate on common elements of standardization.

PART – C

Answer any TWO questions

(2 X 20 =40)

16. a) Elaborate on various design approaches of black box testing with example.

b) Write note on the following:

(i) Stress testing

(4 Marks)

(ii) Security testing

(6 Marks)

17. a) Explain Object –oriented testing methodology.

b) What is web environment? Explain the various testing performed in web environment.

18. a) Explain the tasks of software testing.

b) Describe IEEE standards of software engineering.

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