

END SEMESTER EXAMINATION, JUNE - 2019
MCA FOURTH SEMESTER

COURSE CODE: MCE212**COURSE TITLE: SOFTWARE TESTING****[Time allotted: Three hours]****[Max. Marks: 100]***Note: Attempt all Sections.*

Section (A)

Q. 1. Attempt all questions.**(2 x 10 = 20)**

- a. What is defect bash in software testing?
- b. What do you mean by testing?
- c. Explain monkey testing.
- d. What do you mean by brute force debugging?
- e. What do you mean by software testing tool?
- f. What do you mean by big bang integration testing?
- g. Write the name of tool for regression testing.
- h. What do you mean by test cases?
- i. Differentiate Alpha and Beta testing.
- j. Differentiate pre deployment and post deployment testing.

Section (B)

Q. 2. Attempt any 5 questions.**(7 x 5 = 35)**

- a. Define the term Error, Fault and failure.
- b. Write principle of software testing in detail.
- c. Write difference between verification and validation in detail.
- d. What do you mean by top down integration testing and bottom up integration testing? Explain with an example?
- e. What do you mean by scenario testing? Create a test scenario for login functionality in application.
- f. What do you mean by non functional testing? Explain any two testing.
- g. What is dynamic program slicing? Explain dependence graph technique with example?

Section (C)

Attempt any 3 questions.**(15 x 3 = 45)**

- Q. 3.**
 - a. Explain types of acceptance testing. Design a test plan for acceptance testing.
 - b. What is debugging? What are the different techniques for debugging?
- Q. 4.**
 - a. What do you mean by adhoc testing? Explain type of adhoc testing in detail.
 - b. Define stub and driver in testing with suitable example.
- Q. 5.**
 - a. What do you mean by automated software testing? Explain each phase in detail.
 - b. Write difference between system testing and integration testing in detail.
- Q. 6.**
 - a. What do you mean by white box testing? Explain branch coverage technique with example.
 - b. Write short notes on-
 - i) Smoke testing
 - ii) Manual Testing
 - iii) Boundary value analysis
- Q. 7.**
 - a. What is regression testing? Explain regression testing process in detail.
 - b. What do you mean by black box testing? Explain black box testing technique in detail.
