LOYOLA COLLEGE (AUTONOMOUS), CHENNAI - 600 034



M.C.A.DEGREE EXAMINATION - COMPUTER APPLICATIONS

FIFTH SEMESTER - NOVEMBER 2018

16PCA5MC05- SOFTWARE TESTING

Date: 01-11-2018	Dept. No.	Max.: 100 Marks

Time: 09:00-12:00

PART - A

Answer ALL the questions

10x 2 = 20

- 1) What is a test case?
- 2) Write down the agile manifesto.
- 3) How does a test stub help in testing components?
- 4) Mention the advantages and disadvantages of top-down integration testing.
- 5) What is spike testing?
- 6) Say true or False:
 - a. Emulators are preferable whenever the testing team needs to test the mobile's internal behaviour like its internal hardware, firmware and so forth.
 - b. Laboratory testing is carried out by network carriers by simulating complete wireless network.
- 7) Define DevOps as proposed by IBM.
- 8) What is a digital value chain?
- 9) What are the maturity goals at TMM level 4?
- 10) What is defect casual analysis?

PART - B

Answer ALL the questions

 $5 \times 8 = 40$

11) a) Elucidate cause effect graphing.

(OR)

- b) Explain mutation testing and loop testing.
- 12) a) Explain the issues in testing classes under unit testing.

(OR)

b) Describe configuration and security testing

13) a) Elucidate interface and compatibility testing of a web application.

(OR)

b) Explain the following types of mobile application testing:

i) Updates ii) Crowd Sourced iii) Interrupt and iv) Memory Leakage Testing

14) a) Describe the three rules of thumb stated by Accenture in adopting mobile

DevOps.

(OR)

- b) Explain the Android and iOS testing frameworks.
- 15) a) Illustrate the internal structure of TMM maturity levels with a diagram.

(OR)

b) Explain measurements needed for TMM levels.

PART - C

Answer ANY TWO questions

2 x 20= 40

- 16) a) Elucidate Scrum. (10)
 - b) Explain Equivalence class and boundary value analysis with examples. (10)
- 17) a) Give a detailed description on integration testing strategies. (10)
 - b) Compare real device and emulator or simulator based testing. (10)
- 18) a) Describe mobile web, native and hybrid app. (10)
 - b) Explain defect analysis and prevention. (10)
