



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.C.A.DEGREE EXAMINATION –COMPUTER APPLICATIONS

SECOND SEMESTER – APRIL 2019

17/18PCA2MC03– OBJECT-ORIENTED SOFTWARE ENGINEERING

Date: 09-04-2019
Time: 01:00-04:00

Dept. No.

Max. : 100 Marks

PART-A

(10 x 2=20)

Answer ALL the questions

- 1) Define software process.
- 2) List any four agile process models.
- 3) What is a collaboration diagram?
- 4) UML diagrams of complex systems are organized - Justify.
- 5) Answer the following:
 - a) Each object in a sequence diagram has a lifeline. **True / False.**
 - b) In reusable engineering the emphasis is on software _____.
(i) composition (ii) components (iii) concurrence (iv) connection.
- 6) Mention the criteria for ODBMS.
- 7) List the criteria used in determining equivalence classes in unit testing.
- 8) How can faults be avoided?
- 9) What is software quality assurance?
- 10) Name any five process related software metrics.

PART - B

(5 x 8=40)

Answer ALL the questions

- 11) a) Describe any two prescriptive process models.
(or)
 - b) Explain extreme programming.
- 12) a) Illustrate use case diagram and its relationships for a bank management system.
(or)
 - b) Describe the analysis model of a recycling machine with a neat diagram.
- 13) a) Explain block design and interfaces in construction phase.
(or)
 - b) Describe (i) creation of database tables while modelling using UML diagrams and (ii) ODBMS.
- 14) a) Explain test cases along with relationships.
(or)
 - b) Elucidate black box testing techniques in unit testing.
- 15) a) Enumerate and explain the special roles played by people in software development groups.
(or)
 - b) Give an explanation on software configuration management.

PART- C

(2 x 20 = 40)

Answer ANY TWO questions

- 16) a) Describe scrum. (10)
 - b) Explain interaction diagram with suitable example. (10)
- 17) Explain the following:
 - a) Component management.(10)
 - b) Integration testing. (10)
- 18) Elucidate the following:
 - a) Performance testing. (10)
 - b) Project selection and preparation. (10)
