LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.C.A. DEGREE EXAMINATION – **COMPUTER APPLICATIONS**

SECOND SEMESTER – APRIL 2017

CA 2805- OBJECT ORIENTED SOFTWARE ENGINEERING

Date: 24-04-2017 Dept. No. Max. : 100 Marks
Time: 01:00-04:00

PART-A

Answer ALL the questions **10 x 2=20**

1) Which stage in software engineering takes long time in the project development timeline?
2) What are system architecture, method and process?
3) What is a use case? Give example.
4) Bring out the difference between state chart and activity diagram.
5) List the classification of objects identified in analysis model.
6) What is a component?
7) Differentiate fault, error and failure.
8) Simulation of certain functions is required while performing integration testing. - Justify.
9) Mention product related metrics.
10) Write down the factors for the success of transition to a new method of software development.

PART - B

Answer ALL the questions **5 x 8=40**

11) a) Describe the activity of finding the objects in analysis

(or)

b) Explain the phases of existing methods of system development.

12) a) Explain class diagrams.

(or)

b) Give a brief description on state chart and activity diagrams.

13) a) Explain conversion of class diagrams into source code and tables in a database.

(or)

b) Describe components.

14) a) Elucidate fault avoidance and fault tolerance.

(or)

b) Explain documenting testing activities.

15) a) Describe the steps in detecting and managing risks.

(or)

b) Describe software configuration management.

PART- C

Answer ANY TWO questions **2 x 10 = 20**

16) Explain the following:

a) i) Factors that classify a good system ii) Falsification and prototyping**.** (10)

b) Use case and sequence diagrams based on train ticket booking scenario. (10)

17) Explain the following:

a) Fagan's inspection method. (8)

b) Managing testing activities. (12)

18) a) Elucidate the following:

a) Testing activities. (15)

b) Five levels of process maturity. (5)

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