(6 pages) **Reg. No. :** .....

Code No. : 7491 **Sub. Code : KCAM 35/ PCAM 34**

M.C.A. (CBCS) DEGREE EXAMINATION, APRIL 2019.

Third Semester

Computer Application

OBJECT ORIENTED ANALYSIS AND DESIGN USING UML

(For those who joined in July 2016 and afterwards)

Time : Three hours Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. The ———— is a set of notations and conventions used to describe and model an application.
   (a) HTML
   (b) XML
   (c) DML
   (d) UML

2. The term ———— means a combination of data and logic that represents real world entity.
   (a) Class
   (b) Object
   (c) Event
   (d) Properties

3. A ———— model presented by data flow and constraints.
   (a) Object
   (b) Dynamic
   (c) Functional
   (d) Static

4. The ———— model defines the outside and inside of the system's behavior.
   (a) Use-case
   (b) Domain object
   (c) Implementation
   (d) Test

5. Superclass-subclass relationship also known as ———— hierarchy.
   (a) Association
   (b) Generalization
   (c) Attribute
   (d) Aggregation

6. A- Part- of relationship also called ————.

(a) Aggregation

(b) Transitivity

(c) Antisymmetry

(d) Generalization

7. ———— contains a complete definition of the data formats.

(a) Database

(b) File

(c) Program

(d) Meta-data

8. Creating an object model form an existing relational database layout is referred to as ———— engineering.

(a) Forward

(b) Backward

(c) Inward

(d) Reverse

9. ———— errors result from incorrectly constructed code.

(a) Language

(b) Run–time

(c) Logic

(d) System

10. All passed tests should be repeated with the revised program called ———— testing.

(a) Alpha

(b) Beta

(c) Regression

(d) White Box

PART B — (5 × 5 = 25 marks)

Answer ALL questions choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Describe the components of the unified approach.

Or

(b) Discuss about object behavior and methods.

12. (a) Explain about UML class diagram.

Or

(b) Give an overview about UML Dynamic Modeling.

13. (a) List down the guidelines for developing effective Documentation.

Or

(b) Write down the common class patterns approach.

14. (a) Discuss in detail about coupling.

Or

(b) Write a note on Refining Attributes.

15. (a) Explain about Quality Assurance Tests.

Or

(b) List down the guidelines for Developing Quality Assurance Test cases.

PART C — (5 × 8 = 40 marks)

Answer ALL questions choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Discuss about the waterfall software development process.

Or

(b) Explain about prototyping.

17. (a) Briefly explain about patterns template.

Or

(b) Describe the Booch system development processes.

18. (a) Explain in detail about Use-case model.

Or

(b) Give an overview about Associations.

19. (a) Discuss about client-server computing.

Or

(b) Explain in detail about the macro–level design process.

20. (a) Briefly explain about testing strategies.

Or

(b) Discuss about cryptanalysis.

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