

Register Number

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**VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY**

(An Autonomous Institution, Affiliated to Anna University, Chennai)

Continuous Assessment Test - II

QP Set

2

Regulations-2020

Programme B.E- CSE

Semester: 4

Max. Marks: 60

Duration

2.0 Hrs

Course Code &amp; Title: 18CSC41&amp;Object Oriented Analysis and Design

Class:21CS4A&amp;B

Date: 17.05.2023

Time: 10.30 am – 12.30 pm

Knowledge Levels (KL)

K1 – Remembering

K3 – Applying

K5 – Evaluating

K2 - Understanding

K4 – Analysing

K6 – Creating

**Part A – 12x2 = 24 Marks**

- |     |  |     |    |
|-----|--|-----|----|
| 1.  | Define choice pseudo state in UML state machine diagram.   | CO3 | K1 |
| 2.  | How the logical architecture of a system can be illustrated?                                     | CO3 | K2 |
| 3.  | What are the design decisions made at architectural level in collaborations with layers pattern? | CO3 | K2 |
| 4.  | What are the implementation methods used in OOSE?  | CO4 | K2 |
| 5.  | For what purpose RDD is used?  | CO4 | K2 |
| 6.  | Define Information Expert in grasp pattern.  | CO4 | K1 |
| 7.  | What are the common ways through which visibility can be achieved between two objects?           | CO4 | K2 |
| 8.  | What are the ways in which composite design pattern treats each node?                            | CO4 | K2 |
| 9.  | Draw the component diagram symbols and notations.  | CO5 | K2 |
| 10. | What is an artifact?   | CO5 | K1 |
| 11. | List the various UML tools which are currently used.   | CO5 | K1 |
| 12. | What is OOT?   | CO5 | K1 |

**Part B – 3x12 = 36 Marks**

- | No. | Question   | Marks        | CO  | KL             |
|-----|--|--------------|-----|----------------|
| 13. | (a) (i) Describe briefly about Logical Architecture and also explain how it can be illustrated in UML.<br>OR<br>(b) (i) Explain UML State Machine Diagram with example.<br>(ii) Discuss about Operation Contract with example. | 12<br>8<br>4 | CO3 | K2<br>K2<br>K2 |
| 14. | (a) (i) Discuss about various object oriented design methodologies.<br>(ii) Explain about Common Base Class with example.<br>OR<br>(b) (i) Illustrate in detail about GOF design patterns with example.                        | 8<br>4<br>12 | CO4 | K2<br>K2<br>K2 |
| 15. | (a) (i) Prepare a design model for Project Management System and map its design to code.<br>OR<br>(b) (i) Discuss about the issues in OO testing.<br>(ii) Explain about Test Driven Development.                               | 12<br>8<br>4 | CO5 | K3<br>K2<br>K2 |

17/5/23  
FACULTY INCHARGE

Approved

6/5/23  
HOD/CSE