Register No : _____

THE KAVERY ENGINEERING COLLEGE

(An Autonomous Institution)

B.E/B.TECH DEGREE END SEMESTER THEORY EXAMINATIONS, APRIL-MAY 2025

Sixth Semester

Computer Science and Engineering

CCS356 - Object Oriented Software Engineering

(Common to Information Technology)

Regulations - 2021

Duration : 3 Hrs ***Maximum : 100 Marks***

PART – A (ANSWER ALL QUESTIONS) (Marks 10*2=20)

Q.No	*Questions*	*BLT*	*CO*	*Marks*
1.	Define software engineering.	L1	1	2
2.	What are the pros and cons of Iterative software development models?	L1	1	2
3.	Distinguish between functional and non-functional requirements.	L2	2	2
4.	Enumerate the uses of Petri nets.	L2	2	2
5.	Mention the characteristics of good design.	L1	3	2
6.	Explain briefly about refactoring.	L2	3	2
7.	Recall the principles of testing.	L1	4	2
8.	Outline the purpose of stubs and driver in testing.	L2	4	2
9.	List a few process and project metrics.	L1	5	2
10.	Summarize the testing tools used in DevOps software practice.	L2	5	2

PART – B (ANSWER ALL QUESTIONS) (Marks 5*16 = 80)

Q.No		*Questions*	*BLT*	*CO*	*Marks*
11.	a	Define software life cycle. List all life cycle models and explain all the models in detail with a neat diagram.	L2	1	16
		Or			
	b	Discuss in detail about extreme programming with a neat diagram.	L2	1	16
12.	a	Illustrate about the requirements elicitation? Briefly describe the various activities performed in requirement elicitation phase with an example of a watch system that facilitates to set time and alarm.	L2	2	16
		Or			
	b	Summarize the strategies used to identify the conceptual classes. Describe the steps to create a domain model used for representing the conceptual classes.	L2	2	16

13.	a	Identify the golden rules for user interface design and explain it with examples.	L3	3	16
		Or			
	b	Make use of a neat diagram to discuss about the various architectural styles of software design.	L3	3	16
14.	a	Interpret in detail about the black box and white box testing with suitable examples.	L5	4	16
		Or			
	b	Determine how the program analysis is done with an example.	L5	4	16
15.	a	Interpret how Make/Buy decision helps to track a project quantitatively.	L2	5	16
		Or			
	b	Explain about the motivation behind the use of DevOps in object oriented software engineering.	L2	5	16