Reg. No.					

Question Paper Code

12003

M.E. / M.Tech. - DEGREE EXAMINATIONS, APRIL/MAY 2023

Second Semester

M.E. - Computer Science and Engineering (with Specialization in Networks) 20PCNEL205 - ADVANCED SOFTWARE ENGINEERING

(Regulations 2020)

Duration: 3 Hours

Max. Marks: 100

PART - A $(10 \times 2 = 20 \text{ Marks})$

Answer ALL Questions

1.	What is the advantage of adhering to Life Cycle Models for Software?	Marks, K-Level, CO 2,K1,CO1
2.	State the need for Software Configuration Review.	2,K1,CO1
3.	List the characteristics of Good SRS.	2,K1,CO2
4.	How does the Data Flow Diagram help in design of Software system?	2,K2,CO2
5.	Name the commonly used architectural styles.	2,K1,CO3
6.	What is the use of Fan-in and Fan-out?	2,K1,CO3
7.	What errors are commonly found during Unit Testing?	2,K1,CO4
8.	Distinguish between Stress and Load Testing.	2,K2,CO4
9.	What is continuous Integration?	2,K1,CO5
10.	List the disadvantages of DevOps.	2,K1,CO5

PART - B $(5 \times 13 = 65 \text{ Marks})$

Answer ALL Questions

11. a) Compare Waterfall and Spiral Software Development life cycle 13,K2,C01 models.

OR

- b) Describe the steps involved in Project scheduling Process, Project 13,K2,C01 Timeline chart and Task Network.
- 12. a) Explain in detail about Requirements Engineering Process with neat 13,K2,CO2 diagram.

OR

b) What is the purpose of DFD? What are the components of DFD? 13,K2,CO2 Construct DFD for the following system. An online shopping system for xyz provides many services and benefits to its members and staffs.

13. a) Explain in detail about the Model-view-Controller architectural design 13,K2,CO3 pattern with example and Highlights its advantages. OR Explain in detail about types of Cohesion and coupling with example. 13,K2,CO3 Explain Equivalence class Partitioning with suitable example. 13.K2.CO4 14. OR 13,K2,CO4 Explain in detail about Integration testing with example. 13,K2,CO5 15. Elaborate the DevOps Methodology. OR 7,K2,CO5 b) (i) Explain in detail about deployment pipeline with diagram. (ii) Outline the process of using Cloud as a Platform for Development 6,K2,CO and Deployment.

PART - C $(1 \times 15 = 15 \text{ Marks})$

16. a) Model a Class Diagram for the following scenario.

"Happy Life" is a Life Insurance company that offers various policies to its customers. The Company Manipulates and maintains the details of various policies, Policy holders, Agents and transactions.

OR

b) Model a Use case Diagram for a Library Management System. State 15,K3,CO3 the Functional Requirements you are considering.