



ST. ANNE'S COLLEGE OF ENGINEERING AND TECHNOLOGY
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CCS356 OBJECT ORIENTED SOFTWARE ENGINEERING
CIA I -- QUESTION BANK

PART A

1. What are the phases encompassed in the RAD model.
2. What are the two types of software products.
3. What is software process? List its activities.
4. Define Software Engineering.
5. What is Agile?
6. Give two examples of non-functional requirements.
7. Write the process frameworks and umbrella activities
8. Differentiate between data flow diagram and state chart diagram.
9. List the characteristics of good SRS
10. Define Functional and Non-Functional requirements

PART B

1. What is Prescriptive model? Explain in detail about various prescriptive models with neat diagram and explanation.
2. i) Explain the CMMI model to access the organization level (7)
ii) Discuss in brief about the typical activities involved under umbrella activities to software engineering (7)
3. Explain in briefly about the Extreme Programming process with neat diagrams
4. What are the components of standard structure for the software requirements document? Explain in detail
5. Define Agile Programming. Explain the 12 practices of agile extreme programming.
6. Develop a UML diagrams for Library Management System.
7. Assume that you are the technical manager of a software development organization. A client approached you for a software solution. The problems stated by the client have uncertainties which leads to loss of it not planned and solved. Which software development model you will suggest for this project – Justify. Explain the model with its pros and cons with neat sketch.
8. Draw use case and data flow diagrams for a restaurant system. The Activities of the restaurant system are listed below. Receive the customer food orders, produce the customer ordered foods, serve the customers with their ordered foods, collect payment from customers, store customer payment details order raw details for product details , pay for raw materials and pay for labor.

9. Illustrate with an example, the relationship between use case and sequence diagram
- 10. A coffee vending machine dispenses coffee to customers. Customers order coffee by selecting a recipe from a set of recipes. Customers pay for the coffee using coins. Change is given back, if any, to the customers. The "Service Assistant" loads ingredients (Coffee powder, milk, sugar, water , chocolate) into coffee machine. "The Service Assistant " adds a recipe by indicating the name of the coffee, the units of coffee powder, milk, sugar, water and chocolate to be added as well as the cost of the coffee. The Service Assistant can also edit and delete a recipe**
- i) Develop a use case diagram, class diagram and collaboration diagram for the specification above**
 - ii) For any two scenarios draw an activity diagram and sequence diagram**