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Theory Oriented Questions

UNIT – 1 (Software Development Process)

1. Explain Software Engineering as layered technology approach.
2. State and explain with examples four categories of software. (ANY FOUR TYPES EXPLANATION WITH EXAMPLE) / Types of Software.
3. Perspective Model
 - a. Explain Waterfall Model with neat labelled diagram. State its Advantages and Disadvantages
 - b. RAD
 - c. Spiral
4. Agile Software Development.
 - a. Describe extreme programming with proper diagram
 - b. Distinguish between perspective process model and agile process model.

UNIT – 2 (Software Requirement Engineering)

5. Functional Requirements vs Non-Functional Requirements
6. State the need of SRS and also enlist the characteristics.
7. List and explain any four principles of “Core Principles” of Software Engineering.
8. Describe any four principles of communication for software engineering.
9. Describe four principles of good planning.(ANY FOUR PRINCIPLES)
10. List seven task of Requirement Engineering

UNIT – 3 (Software Modelling and Design)

11. Draw and explain Transition diagram from requirement model to design model.
12. Define data objects, attributes, relationship, cardinality with example of each.
13. Differentiate between White box and Black box testing (any six points).
14. Explain Levels of Testing.

UNIT – 4 (Software Project Estimation)

15. Explain the following 4P's management spectrum.
16. Explain COCOMO-I and COCOMO-II
17. Define Risk? Explain types of Risk?
18. Explain RMMM Strategy?
19. Describe following project cost estimation approaches
 - i) Heuristic
 - ii) Empirical
 - iii) Analytical

UNIT – 5 (Software Quality Assurance and Security)

20. Explain WBS Structure
21. Explain four basic principles of software project scheduling.
22. Software Quality Assurance vs Software Quality Management
23. Explain CMMI in detail with neat diagram
24. Describe six sigma. State operations under DMADV/IC.
25. Scheduling Techniques - PERT and CMP | PERT vs CMP
26. DEVOPs? Need and Benefits

Practical Oriented Questions

27. USE CASE DAIGRAM - Unit 2

- a. Sketch a use case diagram for library management system with minimum four use cases and two actors.
- b. Draw use-case diagram for ATM system with minimum four use cases and two actors.
- c. State and draw symbols used in use case diagram.

28. IDENTIFY AND ENLIST REQUIREMENTS - Unit 3

- a. Identify and enlist requirement for given modules of employee management software:
 - (i) Employee detail
 - (ii) Employee salary
 - (iii) Employee performance.
- b. State requirements for given modules of online shopping system.
 - i) Order module
 - ii) Accountant module
 - iii) Categories module.
- c. Recognize requirements for following modules of banking software
 1. Customer Module
 2. Loan Module
 3. Account Module

29. DFD DAIGRAMS - Unit 3

- a. Draw proper labeled "LEVEL I Data Flow Diagram" (DFD) for student attendance system.
- b. Draw and explain Level 1 DFD for railway reservation system.
- c. Draw DFDO and DFD1 diagram for Library Management System.
- d. Describe symbols used in DFD.

30. COCOMO MODEL SUMS - UNIT 4

Calculate using COCOMO model

- (i) Effort
- (ii) Project duration
- (iii) Average staff size

if estimated size of project is 200 KLOC using organic mode

Use COCOMO model to calculate

- i) Effort
- ii) Development time

if estimated size of project is 500 KLOC using organic, semi-detached, and Embedded mode.

Use COCOMO Model for organic, Semi detached, embedded mode to calculate effort and development time for size of project 600 KLOC

Use COCOMO model to calculate

- 1. Effort
- 2. Development Time
- 3. Average Staff Size
- 4. Productivity

if estimated size of project is 400 KLOC using Embedded mode.

31. Gantt Chart - UNIT 5

- i. Prepare Macro Timeline chart for 20 days of Hotel Management system (6 days a week) consider broad phase of SDLC.
- ii. Explain GANTT chart and it's application for project tracking with an example.
- iii. Prepare time line chart for Library Managements System (five days a week) Consider phases of SDLC.
- iv. Prepare macro timeline chart for 15 days of Home Automation System (5 days a week).Consider broad phases of SDLC.