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**5th Sem / Comp, IT  
Subject:- Software Engineering**

Time : 3Hrs. M.M. : 100

## **SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 Which type of approach is used in function oriented approach of software design?

  - a) Top down
  - b) Bottom down
  - c) Both
  - d) None

Q.2 In which type of maintenance the system can be perfect according to the customer requirement

  - a) Perfective
  - b) Corrective
  - c) Adaptive
  - d) Preventive

Q.3 Which of the following is the phase of waterfall model

  - a) Probability
  - b) Compilation
  - c) Coding and testing
  - d) Coupling

Q.4 COCOMO stands for

  - a) Consumed cost model
  - b) Constructive cost model
  - c) Common cost model
  - d) Cost common model

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- Q.5 By whom is unit testing done ?

  - a) User
  - b) Developer
  - c) Customer
  - d) None of above

Q.6 SDLC stands for

  - a) Software development life cycle
  - b) System development life cycle
  - c) System design life cycle
  - d) Software design life cycle

Q.7 A step by step instruction used to solve a problem is known as

  - a) Sequential structure
  - b) a list
  - c) A plan
  - d) An algorithm

Q.8 Agile Software Development is based on which of the following type?

  - a) Interative Development
  - b) Incremental Development
  - c) Both incremental and iterative development
  - d) Linear Development

Q.9 What is system software?

  - a) Computer program
  - b) Testing
  - c) AI
  - d) IOT

Q.10 Code is checked in which type of testing.

  - a) White box
  - b) grey-box
  - c) black-box
  - d) none of the mentioned

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## **SECTION-B**

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Expand LOC
- Q.12 Define coupling.
- Q.13 DFD stands for \_\_\_\_\_.
- Q.14 What is open system.
- Q.15 Give one disadvantages of Prototype model.
- Q.16 Define Planning.
- Q.17 What is System testing?
- Q.18 What are two types of feasibility study?
- Q.19 List any two components of SRS
- Q.20 SRS stands for \_\_\_\_\_.

## **SECTION-C**

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 What is difference between top down and bottom up approach.
- Q.22 What do you understand by the term life cycle model of software development.
- Q.23 Explain unit and integration testing.
- Q.24 What is data dictionary.
- Q.25 Discuss in brief various types of coupling.
- Q.26 Discuss various issues related to software coding and testing.

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- Q.27 What are Gantt chart? What are their benefits?
- Q.28 What are the advantages of waterfall model?
- Q.29 Define software engineering. List its characteristics also.
- Q.30 What is DFD? List various symbols used in DFD.
- Q.31 Differentiate between cohesion and coupling.
- Q.32 What is software configuration management.
- Q.33 Write a short note on data structure oriented design.
- Q.34 List various types of maintenance. Explain.
- Q.35 Explain various project size estimation Technique.

## **SECTION-D**

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Write a short note on software failure. Also differentiate between black box and white box testing.
- Q.37 Explain Spiral model in detail. Mention its advantages and disadvantages.
- Q.38 What are the characteristics and features of good software design?

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