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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) Iterative 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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