5th Sem. / Comp, IT
Subject : Software Engineering

Time : 3 Hrs.   M.M. : 100

SECTION-A

Note: Multiple type Questions. All Questions are compulsory.   (10x1=10)

Q.1   Code is checked in which type of testing?

a)   White box testing   b)   Black box testing

c)   Green box testing   d)   Red box testing

Q.2   What is the major drawback of the Spiral Model?

a)   Higher amount of risk analysis

b)   Doesn't work well for smaller projects

c)   Additional functionalities are added later on

d)   Strong approval and documentation control

Q.3   Who is the father of Software Engineering?

a)   Margaret Hamilton   b)   Watts S. Humphrey

c)   Alan Turing   d)   Boris Beizer

Q.4   What is a Functional Requirement?

a)   Specifies the tasks the program must complete

b)   Specifies the tasks the program should not complete

c)   Specifies the tasks the program must not work

d)   All of the mentioned

Q.5   What does SDLC stands for?

a)   System Design Life Cycle

b)   Software Design Life Cycle

c)   Software Development Life Cycle

d)   System Development Life cycle

Q.6   Which of the following in as example of Black Box and Functional Processing?

a)   First Generation Language

b)   Second Generation Language

c)   Third Generation Language

d)   Forth Generation Language

Q.7   UML stand for

a)   Uniform Machine Language

b)   Unified Modeling Language

c)   Unit Modeling Language

d)   Universal Modeling Language

Q.8   _____ is a software development activity that is not a part of software processes.

a)   Validation   b)   Specification

c)   Development   d)   Dependence

Q.9   What is system software?

a)   Computer program   b)   Testing

c)   AI   d)   IOT

Q.10 Prototyping aims at :

a) End user understanding and approval

b) Program Logic

c) Planning of dataflow organization

d) None of these

Section-B

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

Q.11 Define SDLC.

Q.12 CMM stands for _____.

Q.13 Requirement engineering is the process of understanding the customers_____.

Q.14 What is code inspection?

Q.15 How do we define software quality.

Q.16 Describe the full form of SCM?

Q.17 What do mean by DFD.

Q.18 Write the use of software metrics.

Q.19 What does level 0 DFD represent?

Q.20 Define integrity.

Section-C

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

Q.21 Explain LOC? What are the advantages and disadvantages of using LOC as Key Measure.

Q.22 What do you mean by capability maturity model?

Q.23 What are the main objectives of software engineering?

Q.24 What is DFD. Brief explain various aspects of DFD.

Q25 Discuss various characteristics of Good SRS.

Q.26 Write short note no ISO 9000 standard.

Q.27 Explain cohesive module.

Q.28 Differentiate between verification validation in brief.

Q.29 What is planning? Explain various activities involved during project planning?

Q.30 Differentiate between walk through and inspection of any software product.

Q.31 Explain in brief the working or prototype model.

Q.32 Write down the various benefits of testing.

Q.33 What is Decision table? Explain in detail the structure and various parts of decision table.

Q.34 Explain coding style.

Q.35 Write a short note on CMM.

Section-D

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

Q.36 Explain Waterfall model in detail with its limitations and benefits?

Q.37 What do you understand by white box testing. Explain various types of white box testing techniques in detail.

Q.38 Explain the Responsibilities of Software Project Manager.