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**5th Sem / Branch : Comp. IT
Sub. : Software Engg.**

Time : 3Hrs. M.M. : 100

SECTION-A

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

Q.1 Which of the following is an example of high level programming language (CO-1)

- a) Python
- b) Window Xp
- c) Linux
- d) Norton

Q.2 In which language, instruction are written in English like words. (CO-1)

- a) Low level languages
- b) High Level languages
- c) Assembly language
- d) Machine language

Q.3 Spiral model originally proposed by (CO-2)

- a) Boehm
- b) Winston
- c) Royce
- d) Dexter

Q.4 Sdic stands for

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

Q.5 LOC stands for (CO-3)

- a) Lines of contact
- b) Lines of code
- c) Length of code
- d) Length of contract

Q.6 SRS stands for (CO-4)

- a) System requirement specification
- b) Software requirement specification
- c) Software required systems
- d) System required specification

Q.7 DFD stands for

- a) Digital flow diagram
- b) Data flow diagram
- c) Dynamic flow diagram
- d) Digital flow drawing

Q.8 The three basic single entry, single exit constructs are (CO-5)

- a) Sequencing, selection, iteration
- b) Alpha testing, beta testing, gamma testing
- c) Loops, data, information
- d) None of the above

Q.9 Which of the following is a software testing method

- a) Alpha testing
- b) Differentiation testing
- c) Spiral testing
- d) Wooden testing

Q.10 White Box testing is done (CO-6)

- a) With internal knowledge of product
- b) Without internal knowledge of product

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SECTION-B

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

- Q.11 What is open system. (CO-1)
Q.12 Write name of any two life cycle models. (CO-2)
Q.13 Write advantages of spiral model. (CO-2)
Q.14 Expand cocomo. (CO-3)
Q.15 Define software metrics. (CO-4)
Q.16 What is SRS. (CO-4)
Q.17 SRS serves as a contract between customer and developer (True/False) (CO-4)
Q.18 Expand CMM. (CO-6)
Q.19 Write the use of unit testing. (CO-6)
Q.20 Explain the term beta testing? (CO-6)

SECTION-C

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

- Q.21 Write difference between program and software. (CO-1)
Q.22 Write any two characteristics of software as a product. (CO-1)
Q.23 What do you mean by feasibility study. (CO-2)
Q.24 Write down Advantages of waterfall model. (CO-2)
Q.25 What are the Responsibilities of Software Project Manager. (CO-2)

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- Q.26 What is COCOMO model? (CO-2)
Q.27 Write short note on function point metric. (CO-3)
Q.28 Explain any two Responsibilities of Software Project Manager. (CO-3)
Q.29 What is requirement gathering? (CO-4)
Q.30 What are the various components of a SRS Document. (CO-4)
Q.31 What is Cohesion? (CO-5)
Q.32 What is coupling? (CO-5)
Q.33 What is the role of documentation. (CO-5)
Q.34 Define Verification & Validation. (CO-6)
Q.35 Define white Box Testing. (CO-5)

SECTION-D

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

- Q.36 Write short notes on (CO-1)
a) Object oriented design
b) High level programming language
Q.37 Explain (CO-3)
a) Delphi Technique
b) Ioc based metric
Q.38 What do you understand by object oriented design and function oriented design and list differences between object oriented and function oriented design? (CO-5)

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