

No. of Printed Pages : 4 180855/170855/120855/030855  
Roll No. ....

**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 Software Debugging is known as \_\_\_\_\_  
a) identifying the task to be computerized  
b) creating program code  
c) creating the algorithm  
d) finding and correcting errors in the program code
- Q.2 What is a prototype?  
a) Mini-model of existing system  
b) Mini-model of the proposed system  
c) Working model of the existing system  
d) None of these above
- Q.3 The detailed study of existing system is referred to as:  
a) System Planning    b) System Analysis  
c) Feasibility Study    d) Design DFD
- Q.4 What is the final outcome of the requirements analysis and specifications phase?  
a) Drawing the data flow diagram

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- b) The SRS Document  
c) Coding the project  
d) The User Manual
- Q.5 Software Configuration Management is the discipline for systematically controlling  
a) the changes due to the evolution of work products as the project proceeds  
b) the changes due to defects (bugs) being found and then fixed.  
c) the changes due to requirement changes  
d) all of the above
- Q.6 The basic tool used in structured design is a :  
a) Structure Chart    b) Data flow diagram  
c) ER diagram    d) Program flowchart
- Q.7 In software maintenance removing errors spotted by users is known as \_\_\_\_\_.  
a) Adaptive    b) Corrective  
c) Perfective    d) Preventive
- Q.8 Quality Management is known as \_\_\_\_\_  
a) SQI    b) SQA  
c) SQM    d) SQA and SQM
- Q.9 \_\_\_\_\_ probes the programs ability to handle data at the limits of acceptability.  
a) Boundary value analysis  
b) Graph-based testing  
c) Equivalence partitioning  
d) loop testing

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- Q.10 "Black" refers in the "Black-box" testing means
- Characters of the movie "Black"
  - I-O is hidden
  - Design is hidden
  - Users are hidden

### SECTION-B

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

- Q.11 System are created to solve \_\_\_\_\_ (Problem /Software).
- Q.12 LOC stands for \_\_\_\_\_.
- Q.13 Write full form of COCOMO.
- Q.14 Input, processing and output are the common components of every system. (T/F)
- Q.15 Define a test case.
- Q.16 What is coupling?
- Q.17 Software design of a project act as \_\_\_\_\_ between problem domain and solution domain (bridge/gap)
- Q.18 Define testing.
- Q.19 Define ISO 9000.
- Q.20 What is User Manual?

### SECTION-C

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

- Q.21 Name some basic components of SRS?
- Q.22 Differentiate between top down and bottom up approach.
- Q.23 Explain different software testing strategies.

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- Q.24 Differentiate between the open system and close system.
- Q.25 Write down the disadvantages of waterfall model.
- Q.26 What is requirement analysis? Write its various elements.
- Q.27 Write a note on
- Structure chart
  - Pseudocode
- Q.28 Briefly explain different types of Systems.
- Q.29 Differentiate between cohesion and coupling.
- Q.30 Explain the Project Size Estimation technique?
- Q.31 Explain State Oriented Notation in detail.
- Q.32 Difference between black box testing and white box testing.
- Q.33 What are Gantt chart? How they are helpful as well?
- Q.34 Write short note on Six sigma.
- Q.35 Differentiate between program and software product.

### SECTION-D

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

- Q.36 Write short note on software failure, Black box testing White Box testing and Stress testing?
- Q.37 Explain spiral model in detail. Mention its advantages and disadvantages.
- Q.38 What do mean by software metrics. Explain its various categories.

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