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**DHANALAKSHMI SRINIVASAN COLLEGE  
OF ARTS & SCIENCE FOR WOMEN  
(AUTONOMOUS)**

(For Candidates admitted from 2020-2021 onwards)

**PG DEGREE EXAMINATIONS APRIL - 2021**

**M.Sc., – COMPUTER SCIENCE**

**ADVANCED SOFTWARE ENGINEERING**



**Time: 3 Hrs**

**Max.Marks: 75**

**PART - A**

**CHOOSE THE CORRECT ANSWER**

**(10X1=10)**

1. Software that monitors/analyzes/controls real-world events as they occur are called \_\_\_\_\_ software.  
a) System                      b) Real Time                      c) Business                      d) Embedded
2. \_\_\_\_\_ Software makes use of non-numerical algorithms to solve complex problems that are not amenable to computation or straightforward analysis.  
a) Engineering                      b) Scientific                      c) Web-based                      d) Artificial Intelligence
3. \_\_\_\_\_ decomposes a problem into its constituent parts.  
a) Partitioning                      b) Modeling                      c) Information Domain d) Essential View
4. An open-ended approach, called \_\_\_\_\_ prototyping, uses the prototype as the first part of an analysis activity that will be continued into design and construction.  
a) Revolution                      b) Evolutionary                      c) Throwaway                      d) Throwback
5. \_\_\_\_\_ abstraction is a named collection of data that describes a data object.  
a) Data                      b) Procedural                      c) Control                      d) Open
6. An example of a \_\_\_\_\_ abstraction is the synchronization semaphore.  
a) Data                      b) Procedural                      c) Control                      d) Open
7. \_\_\_\_\_ creates a model of data and/or information that is represented at a high level of abstraction.  
a) Data Control                      b) Data Model                      c) Data Design                      d) Data Structure
8. \_\_\_\_\_ is a set of design steps that allows a DFD with transform flow characteristics to be mapped into a specific architectural style.  
a) Transform Mapping                      b) Transaction Mapping                      c) Procedural Design                      d) Architectural Design
9. \_\_\_\_\_ links are used when a number of different relationships are established between graph nodes.  
a) Directed                      b) Symmetric                      c) Bidirectional                      d) Parallel
10. \_\_\_\_\_ testing is a systematic technique for constructing the program structure while at the same time conducting tests to uncover errors associated with inter- facing.  
a) Unit                      b) Integration                      c) Validation                      d) System

**PART- B**

**ANSWER ALL THE QUESTIONS**

**(5X7=35)**

11. a) Explain about Software Applications.

**(OR)**

b) Provide a Generic View of Software Engineering.

12. a) Survey on Software Requirement Specification.

**(OR)**

b) Summarize on Analysis Principles.

13. a) Explain about Modularity.

**(OR)**

b) Brief about Abstraction.

14. a) Write about Data Design.

**(OR)**

b) Write about Real Time System.

15. a) Write about White Box Testing.

**(OR)**

b) Explain about Unit Testing.

**PART-C**

**ANSWER ANY THREE QUESTIONS**

**(3X10=30)**

16. Elaborate on Software Process Models.

17. Elucidate on Functional Modeling.

18. Describe in detail about Cohesion and Coupling.

19. Illustrate about Transform Mapping with an example.

20. Discuss in detail about Basis Path Testing.