Question No: 1  (Marks: 1) - Please choose one
By following modern system engineering practices simulation of reactive systems is no longer necessary
► True
► False

Question No: 2  (Marks: 1) - Please choose one
The state transition diagram
► depicts relationships between data objects
► depicts functions that transform the data flow
► indicates how data are transformed by the system
► indicates system reactions to external events

Question No: 3  (Marks: 1) - Please choose one
Control flow diagrams are
► needed to model event driven systems.
► required for all systems
► used in place of data flow diagrams
► useful for modeling user interfaces

Question No: 4  (Marks: 1) - Please choose one
A change becomes -------------- because of close presence of data and functions
► Localized
► Private
► Global
► Accessible

Question No: 5  (Marks: 1) - Please choose one
A complex System evolves from a
► smaller system
► medium sysetem
► bigger system
► non of the given

Question No: 6  ( Marks: 1 )  - Please choose one
Coupling is a measure of ------------of a module or component.

► Independent
► Dependent
► Closeness
► All of the given

Question No: 7  ( Marks: 1 )  - Please choose one
Software Maintenance phase involves

► Debugging
► Adding new features
► making changes
► all of the given

Question No: 8  ( Marks: 1 )  - Please choose one
The hardest single part of building a software system is deciding precisely -------- to build.

► what
► How
► When
► Why

Question No: 9  ( Marks: 1 )  - Please choose one
Interaction Diagrams depict the --------- Behavior of the system

► Static
► Dynamic
► Active
► Non of the above

Question No: 10  ( Marks: 1 )  - Please choose one
In Sequence Diagrams the time required by the receiver object to process the message is denoted by an-------------

► Activation Box
► Simple Box
► Arrow
Question No: 11 (Marks: 1) - Please choose one
A poorly designed interface can cause a user to make catastrophic errors is one of the motivations for GUI.

► True
► False

Question No: 12 (Marks: 1) - Please choose one
Identifying System Features include ------
► log important information
► conduct business
► analyze business results

► all of the above

Question No: 13 (Marks: 1) - Please choose one
Establishing responsibilities for objects includes
► Generalization Relationships
► Specialization Relationships
► all of the above
► identifying Association relationships

Question No: 14 (Marks: 1) - Please choose one
Which of the following is a fact finding method?
► Site visits
► Prototyping
► Study of similar systems
► All of given

Question No: 15 (Marks: 1) - Please choose one
Windows mobile is a popular mobile operating system which seen commonly on PDAs. Which of the following category pair(s) best describe(s) it?

► application software, embedded software
► system software, web-based software
► application software, scientific software
► system software, embedded software

Question No: 16 (Marks: 1) - Please choose one
The Object Oriented approach
improves the reusability of codes.
▶ makes objects less independent.
▶ increases testing time.
▶ complicates mapping of a system model to an implementation model.

**Question No: 17 (Marks: 2)**
Define abstraction?

**Question No: 18 (Marks: 2)**
Is the design of software architecture a creative process?

**Question No: 19 (Marks: 2)**
Suppose you are working as a software engineer involved in the development of an e-commerce website.

What are the 2 most important characteristics your software must have?

**Question No: 20 (Marks: 3)**
What is the purpose of collaboration diagrams?

**Question No: 21 (Marks: 3)**
What is the difference between Aggregation and Association?

**Question No: 22 (Marks: 5)**
what parameters are used to measure and analyze design quality?

**Question No: 23 (Marks: 5)**
How the objects are identified in Peter Codd’s technique?