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| **DEPARTMENT OF COMPUTER ENGINEERING** | |
| **Subject :Software Engineering** | | **Class: SE** | |
| **Semester: II** | |  | |
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**MCQ Question bank**

**(UNIT 2)**

**Q.1.**FAST stands for

1. Functional Application Specification Technique
2. Fast Application Specification Technique
3. Facilitated Application Specification Technique
4. None of the mentioned

**Answer:- (3)**

**Q.2.**What are the four dimensions of Dependability ?

1. Usability, Reliability, Security, Flexibility
2. Availability, Reliability, Maintainability, Security
3. Availability, Reliability, Security, Safety
4. Security, Safety, Testability, Usability

**Answer:- (3)**

**Q.3.**What is the first step of requirement elicitation ?

1. Identifying Stakeholder
2. Listing out Requirements
3. Requirements Gathering
4. All of the mentioned

**Answer:- (1)**

**Q.4.** \_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_ are the two view points discussed in Controlled Requirements Expression (CORE).

1. Functional, Non-Functional
2. User, Developer
3. Known, Unknown
4. All of the mentioned

**Answer:- (1)**

**Q.5.**Which of the following is not a diagram studied in Requirement Analysis ?

1. Use Cases
2. Entity Relationship Diagram
3. State Transition Diagram
4. Activity Diagram

**Answer:- (4)**

**Q.6.** Requirements should specify ‘what’ but not ‘how’.

1. True
2. False

**Answer:- (1)**

**Q.7.**Which of the following property does not correspond to a good Software Requirements Specification (SRS) ?

1. Verifiable
2. Ambiguous
3. Complete
4. Traceable

**Answer:- (2)**

**Q.8.**The SRS is said to be consistent if and only if

1. its structure and style are such that any changes to the requirements can be made easily while retaining the style and structure
2. every requirement stated therein is one that the software shall meet
3. every requirement stated therein is verifiable
4. no subset of individual requirements described in it conflict with each other

**Answer:- (4)**

**Q.9.**The SRS document is also known as \_\_\_\_\_\_\_\_\_\_\_\_\_ specification.

1. black-box
2. white-box
3. grey-box
4. none of the mentioned

**Answer:- (1)**

**Q.10.** Which of the following is not included in SRS ?

1. Performance
2. Functionality
3. Design solutions
4. External Interfaces

**Answer:- (3)**

**Q.11.**Consider the following Statement: “The data set will contain an end of file character.”What characteristic of SRS is being depicted here ?

1. Consistent
2. Non-verifiable
3. Correct
4. Ambiguous

**Answer:- (2)**

**Q.12.**Consider the following Statement: “The product should have a good human interface.”What characteristic of SRS is being depicted here ?

1. Consistent
2. Non-Verifiable
3. Correct
4. Ambiguous

**Answer:- (2)**

**Q.13.**Why is Requirements Management Important ? It is due to the changes

1. to the environment
2. in technology
3. in customer’s expectations
4. in all of the mentioned.

**Answer:- (4)**

**Q.14.**Requirements Management is a prerequisite for Quality-Oriented Development.

1. True
2. False

**Answer:- (1)**

**Q.15.**Requirements traceability is one of the most important part requirement management. It may also be referred to as the heart of requirement management.

1. True
2. False

**Answer:- (1)**

**Q.16.**The Unified Modeling Language (UML) has become an effective standard for software modelling.How many different notations does it have ?

1. Three
2. Four
3. Six
4. Nine

**Answer:- (4)**

**Q.17.**Which model in system modelling depicts the dynamic behaviour of the system ?

1. Context Model
2. Behavioral Model
3. Data Model
4. Object Model

**Answer:- (2)**

**Q.18.** Which model in system modelling depicts the static nature of the system ?

1. Behavioral Model
2. Context Model
3. Data Model
4. Structural Model

**Answer:- (4)**

**Q.19.**The UML supports event-based modeling using \_\_\_\_\_\_\_\_\_\_\_\_ diagrams.

1. Deployment
2. Collaboration
3. State chart
4. All of the mentioned

**Answer:- (3)**

**Q.20.**Model-driven engineering is just a theoretical concept. It cannot be converted into a working/executable code.

1. True
2. False

**Answer:- (2)**

**Q.21 How the interviews held between two persons across the table is**..  
A. Written  
B. Non-structured  
C. One-to-one  
D. Group

**Answer C**

**Q.22. The computer-based system can have a profound effect on the design that is chosen and also the implementation approach will be applied.**  
A. Behavioral elements  
B. Flow-oriented elements  
C. Scenario-based elements  
D. Class-based elements

**Answer A**

**Q.23** Which one of the following is a functional requirement ?  
a) Maintainability  
b) Portability  
c) Robustness  
d) None of the mentioned

Answer: d.

**Q.24** Which one of the following is a requirement that fits in a developer’s module ?  
a) Availability  
b) Testability  
c) Usability  
d) Flexibility

Answer: b

**Q.25**. “Consider a system where, a heat sensor detects an intrusion and alerts the security company.” What kind of a requirement the system is providing ?  
a) Functional  
b) Non-Functional  
c) Known Requirement  
d) None of the mentioned

Answer: a

**Q.26**Which of the following statements explains portability in non-functional requirements?  
a) It is a degree to which software running on one platform can easily be converted to run on another platform  
b) It cannot be enhanced by using languages, OS’ and tools that are universally available and standardized  
c) The ability of the system to behave consistently in a user-acceptable manner when operating within the environment for which the system was intended  
d) None of the mentioned

Answer: a  
**Q.27** Functional requirements capture the intended behavior of the system.  
a) True  
b) False

Answer: a.

**Q.28** Choose the incorrect statement with respect to Non-Functional Requirement(NFR).  
a) Product-oriented Approach – Focus on system (or software) quality  
b) Process-oriented Approach – Focus on how NFRs can be used in the design process  
c) Quantitative Approach – Find measurable scales for the functionality attributes  
d) Qualitative Approach – Study various relationships between quality goals

Answer: c

**Q.29** How many classification schemes have been developed for NFRs ?  
a) Two  
b) Three  
c) Four  
d) Five  
View Answer

Answer: d  
  
**Q.30** According to components of FURPS+, which of the following does not belong to S ?  
a) Testability  
b) Speed Efficiency  
c) Serviceability  
d) Installability  
Answer:b

**Q.31**. Does software wear & tear by decomposition ?  
a) Yes  
b) No

Answer: b

**Q.32**. Choose the correct statement on how NFRs integrates with Rational Unified Process?  
a) System responds within 4 seconds on average to local user requests and changes in the environment  
b) System responds within 4 seconds on average to remote user requests and changes in the environment  
c) All of the mentioned  
d) none of the mentioned

Answer: b

**Q.33 .**Keeping the requirements of QFD in mind which of the following is not an example of an Expected Requirement ?  
a) Ease of software installation  
b) Overall operational correctness and reliability  
c) Specific system functions  
d) Quality graphical display

Answer: c.

**Q.34**. QFD works best if it has management commitment.  
a) True  
b) False

Answer: a  
Explanation: QFD involves heavy investment in initial stages, thus bounding the management to provide appropriate funding for the development process .

**Q. 35**. Which of the following Requirement Elicitation Techniques is applicable to messy, changing and ill-defined problem situations ?  
a) Quality Function Deployment (QFD)  
b) Prototyping  
c) Soft Systems Methodology (SSM)  
d) Controlled Requirements Expression (CORE)

Answer: c  
**Q. 36 T**he Unified Modeling Language (UML) has become an effective standard for software modelling.How many different notations does it have ?  
a) Three  
b) Four  
c) Six  
d) Nine

Answer: d  
**Q. 37**. Which model in system modelling depicts the dynamic behaviour of the system ?  
a) Context Model  
b) Behavioral Model  
c) Data Model  
d) Object Model  
Answer: B

**Q. 38** Which model in system modelling depicts the static nature of the system ?  
a) Behavioral Model  
b) Context Model  
c) Data Model  
d) Structural Model

Answer: d

**Q. 39** Which perspective in system modelling shows the system or data architecture.  
a) Structural perspective  
b) Behavioral perspective  
c) External perspective  
d) All of the mentioned

Answer: a.

**Q. 40**. Activity diagrams are used to model the processing of data.  
a) True  
b) False

Answer: a

**Q. 41** Model-driven engineering is just a theoretical concept. It cannot be converted into a working/executable code.  
a) True  
b) False

Answer: b

**Q. 42** The UML supports event-based modeling using \_\_\_\_\_\_\_\_\_\_\_\_ diagrams.  
a) Deployment  
b) Collaboration  
c) State chart  
d) All of the mentioned

Answer: c  
**Q. 43**Which of the following diagram is not supported by UML considering Data-driven modeling ?  
a) Activity  
b) Data Flow Diagram (DFD)  
c) State Chart  
d) Component

Answer: b

**Q. 44** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ allows us to infer that different members of classes have some common characteristics.  
a) Realization  
b) Aggregation  
c) Generalization  
d) dependency

Answer: c

**Q. 45**. One creates Behavioral models of a system when you are discussing and designing the system architecture.  
a) True  
b) False

Answer: b

**Q. 46**\_\_\_\_\_\_\_\_\_\_\_\_\_\_ & \_\_\_\_\_\_\_\_\_\_\_\_\_\_ diagrams of UML represent Interaction modeling.  
a) Use Case, Sequence  
b) Class, Object  
c) Activity, State Chart  
d) All of the mentioned  
View Answer

Answer: a

**Q. 47** Which level of Entity Relationship Diagram (ERD) models all entities and relationships ?  
a) Level 1  
b) Level 2  
c) Level 3  
d) Level 4

Answer: b

**Q. 48**\_\_\_\_\_\_\_\_\_\_\_ classes are used to create the interface that the user sees and interacts with as the software is used.  
a) Controller  
b) Entity  
c) Boundary  
d) Business

Answer: c

**Q. 49** Which of the following statement is incorrect regarding the Class-responsibility-collaborator (CRC) modeling ?  
a) All use-case scenarios (and corresponding use-case diagrams) are organized into categories in CRC modelling  
b) The review leader reads the use-case deliberately  
c) Only developers in the review (of the CRC model) are given a subset of the CRC model index cards  
d) All of the mentioned

Answer: c

**Q. 50**. A data object can encapsulates processes and operation as well.  
a) True  
b) False

Answer: b.