



**BABU MADHAV INSTITUTE OF INFORMATION TECHNOLOGY, UTU**  
**Integrated M.Sc.(IT)**

**Semester-IV**

**060010413 | CC13 Software Engineering |**

**Question Bank-Unit: 02**

**Unit-2: Software Requirement Elicitation and Analysis**

**Multiple Choice Questions [1 Mark]**

2.1. Software requirement

|    |  |
|----|--|
| 1. | The hardest part of software development is:   |
|    | <ul style="list-style-type: none"><li>a) Requirement gathering</li><li>b) Software design</li><li>c) Software implementation</li><li>d) None of the above</li></ul>                              |
| 2. | Requirements are described as:   |
|    | <ul style="list-style-type: none"><li>a) How of a system</li><li>b) What of a system</li><li>c) When of a system</li><li>d) All of the above</li></ul>   |
| 3. | A generic term is used for the people who are affected directly or indirectly by the system is known as _____.   |
|    | <ul style="list-style-type: none"><li>a) Users</li><li>b) Customers</li><li>c) Stakeholders</li><li>d) Developer</li></ul>   |
| 4. | Which is not a stakeholder?  |
|    | <ul style="list-style-type: none"><li>a) User</li><li>b) Customer</li><li>c) Developer</li><li>d) Operating system</li></ul>   |
| 5. | Functional requirements describe:  |
|    | <ul style="list-style-type: none"><li>a) “who” the software will perform.</li><li>b) “when” the software will do.</li><li>c) “what” the software will do.</li><li>d) None of the above</li></ul> |



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| 6.  | From the following things, which functional requirements should be included?<br>I. Details of operations conducted in every screen.<br>II. It should have descriptions of system reports or other outputs.<br>III. Complete information about the workflows performed by the system.<br>IV. It should clearly define who will be allowed to create/modify/delete the data in the system. |
|     | a) I, II, III, IV<br>b) I, II, III<br>c) I, III, IV<br>d) III, IV  |
| 7.  | “Functional requirements also specify what the software will not do.”  |
|     | a) True<br>b) False  |
| 8.  | Functional requirements are also known as:   |
|     | a) Requirement gathering<br>b) Quality attributes<br>c) Product features<br>d) All of the above  |
| 9.  | Which one of the following is a functional requirement?  |
|     | a) Maintainability<br>b) Portability<br>c) Robustness<br>d) None of the mentioned  |
| 10. | The non-functional requirement signifies that  |
|     | a) what the software will do.<br>b) how well the software does, what it has to be.<br>c) which features are to be included in system?<br>d) None of the above  |
| 11. | Which of the following is not a non-functional requirement?  |
|     | a) Functionality<br>b) Reliability<br>c) Correctness<br>d) Portability   |



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| 12.  | What are the benefits to identify unknown requirements?   |
|  | <ul style="list-style-type: none"><li>a) They may add value to the system.</li><li>b) Increase the chances of acceptability of the system.</li><li>c) Increase the chances of sustainability of the system.</li><li>d) All of the above</li></ul>                                 |
| <u>2.2. Requirements elicitation techniques: FAST, prototyping</u> |   |
| 13.  | Requirements elicitation means:   |
|  | <ul style="list-style-type: none"><li>a) Requirements capturing</li><li>b) Requirements prioritization</li><li>c) Requirements management</li><li>d) Requirements traceability</li></ul>  |
| 14.  | The best reason to select a requirements elicitation technique is:  |
|  | <ul style="list-style-type: none"><li>a) It is the only technique we know.</li><li>b) It is our favourite technique.</li><li>c) We believe that a particular technique is suitable for our project.</li><li>d) None of the above</li></ul>  |
| 15.  | FAST stands for:  |
|  | <ul style="list-style-type: none"><li>a) Frequent application specification technique</li><li>b) Facilitated application specification technique</li><li>c) Facilitated approximate specification technique</li><li>d) Facilitated application specification technology</li></ul> |
| 16.  | The role of a facilitator is to:  |
|  | <ul style="list-style-type: none"><li>a) Handle conflicts</li><li>b) Ensure smooth conduct of meeting</li><li>c) Prepare detailed report</li><li>d) All of the above</li></ul>  |
| 17.  | Which one of the following is true?   |
|  | <ul style="list-style-type: none"><li>a) FAST is not a popular technique</li><li>b) FAST session is conducted at customer's site</li><li>c) FAST is more formal than brainstorming session</li><li>d) FAST is a low-cost activity</li></ul>                                       |
| 18.  | What is the main objective of FAST technique?   |



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|     | <ul style="list-style-type: none"> <li>a) To complete the work in a speedy way.</li> <li>b) To complete requirement gathering.</li> <li>c) To start implementation.</li> <li>d) To close the gap between developers and customer.</li> </ul>   |
| 19. | <p>Which are the required guidelines for conducting FAST session?</p> <ul style="list-style-type: none"> <li>i. It must be conducted at neutral site.</li> <li>ii. The framed rules for participation, must be circulated to all the members in advance.</li> <li>iii. All members must be felt comfortable to encourage free flow of ideas.</li> <li>iv. The facilitator (organizer) gives the overview of the project.</li> <li>v. A display mechanism like.... Projector, Wall Stickers, Flip Charts, Whiteboards, etc. should be available in the committee room, where the meeting is conducted.</li> <li>vi. All members should be directed to give their views. Unnecessary delay should be avoided.</li> </ul> |
|     | <ul style="list-style-type: none"> <li>a) Only (i) and (ii)</li> <li>b) Only (iii) and (v)</li> <li>c) Only (ii) and (iv)</li> <li>d) All (i) to (vi)</li> </ul>   |
| 20. | <p>Which of the following is not required by each member to make preparation for FAST session?</p>   |
|     | <ul style="list-style-type: none"> <li>a) A list of objects</li> <li>b) A list of services</li> <li>c) A list of meeting</li> <li>d) Performance criteria</li> </ul>   |
| 21. | <p>Which are the activities of FAST session?</p> <ul style="list-style-type: none"> <li>I. A small group is constituted to prepare a consolidated list after removing redundant entries.</li> <li>II. Not a single group is created to draft mini-specifications.</li> <li>III. Each sub-team presents mini-specifications to all FAST attendees.</li> <li>IV. All issues can be resolved during the meeting.</li> <li>V. A validation standard is also decided for every requirement.</li> <li>VI. The final draft is prepared considering all inputs of FAST meeting.</li> </ul>   |



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|  | <ul style="list-style-type: none"><li>a) I, II, IV, VI</li><li><b>b) I, III, V, VI</b></li><li>c) I, III, IV, V</li><li>d) I, III, IV, VI</li></ul>   |
| 22.                                      | _____ helps us to prepare the IRD in limited time frame under the leadership.   |
|  | <ul style="list-style-type: none"><li><b>a) FAST</b></li><li>b) SRS</li><li>c) Functional requirements</li><li>d) Use case</li></ul>  |
| 23.                                      | Prototyping is:   |
|  | <ul style="list-style-type: none"><li>a) less costly.</li><li>b) a process that may increase the cost of the system.</li><li>c) a complex version of the system.</li><li>d) a process of developing source code.</li></ul>  |
| 24.                                      | The developers should develop the _____ as early as possible to speed up the software development process.  |
|  | <ul style="list-style-type: none"><li>a) IRS</li><li>b) SRS</li><li>c) Functional requirements</li><li><b>d) Prototype</b></li></ul>  |
| <u>2.3. Initial requirement document</u> |   |
| 25.                                      | IRD stands for:   |
|  | <ul style="list-style-type: none"><li>a) Initial Request Document</li><li>b) Initial Required Document</li><li><b>c) Initial Requirements Document</b></li><li>d) Interactive Requirements Document</li></ul>   |
| 26.                                      | What is IRD?  |
|  | <ul style="list-style-type: none"><li>a) IRD is the document for the customer's project which is given to them.</li><li><b>b) IRD is the document which is used to list the initial set of requirements gathered through various stakeholders.</b></li><li>c) IRD is the document which is used to list the meetings which is held between customers and developers.</li><li>d) None of the above</li></ul> |



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#### 2.4. Use Case Approach: Creating Use Case Diagram for Requirement, Use Case Description, Scenario Diagrams, Scenario Matrix

27. Which approach is the popular object-oriented technique for representing requirements?

- a) Flow chart
- b) Data flow diagram
- c) Questionnaire
- d) Use case approach

28. A use case addresses:

- a) Functional requirements
- b) Non-functional requirements
- c) Both (a) and (b)
- d) None of the above

29. A use case diagram consists of:

- a) Classes and use cases
- b) Actors and classes
- c) Actors and objects
- d) Actors and use cases

30. Actors include anything that is:

- a) External to the system
- b) Internal to the system
- c) Functionality of the system
- d) Both (a) and (b)

31. Which one of the following is not an actor?

- a) External system
- b) Customers
- c) Users
- d) Keyboard

32. In a use case diagram, actors are represented by:

- a) Triangles
- b) Stick figures
- c) An oval
- d) Squares



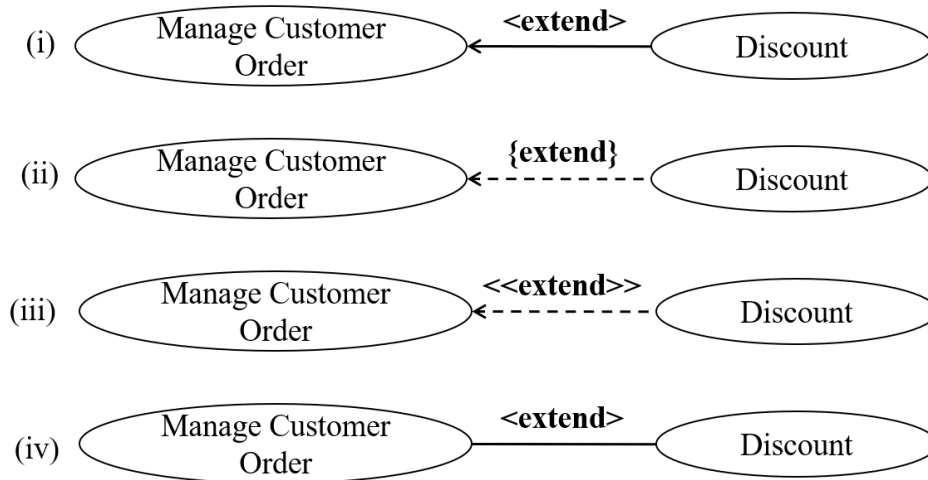
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| 33. | Every use case may have:  |
|     | <ul style="list-style-type: none"><li>a) No actor</li><li>b) At least one actor</li><li>c) <b>At most one actor</b></li><li>d) None of the above</li></ul>              |
| 34. | In a use case diagram, a use case is represented by:  |
|     | <ul style="list-style-type: none"><li>a) A square</li><li>b) A rectangle</li><li>c) A triangle</li><li>d) <b>An oval</b></li></ul>                                      |
| 35. | The relationship between an actor and a use case is shown by:   |
|     | <ul style="list-style-type: none"><li>a) A line</li><li>b) A dash lines</li><li>c) <b>An arrow</b></li><li>d) A dash line arrow</li></ul>                               |
| 36. | In use case diagrams, which type of relationship is used to execute an optional system behavior?  |
|     | <ul style="list-style-type: none"><li>a) <b>Extend</b></li><li>b) Include</li><li>c) Either (a) or (b)</li><li>d) Neither (a) or (b)</li></ul>                          |
| 37. | In use case diagrams, by using which type of relationship, the redundant and repeated functionalities among different use cases can be modelled into a single use case? |
|     | <ul style="list-style-type: none"><li>a) Extend</li><li>b) <b>Include</b></li><li>c) Either (a) or (b)</li><li>d) Neither (a) or (b)</li></ul>                          |



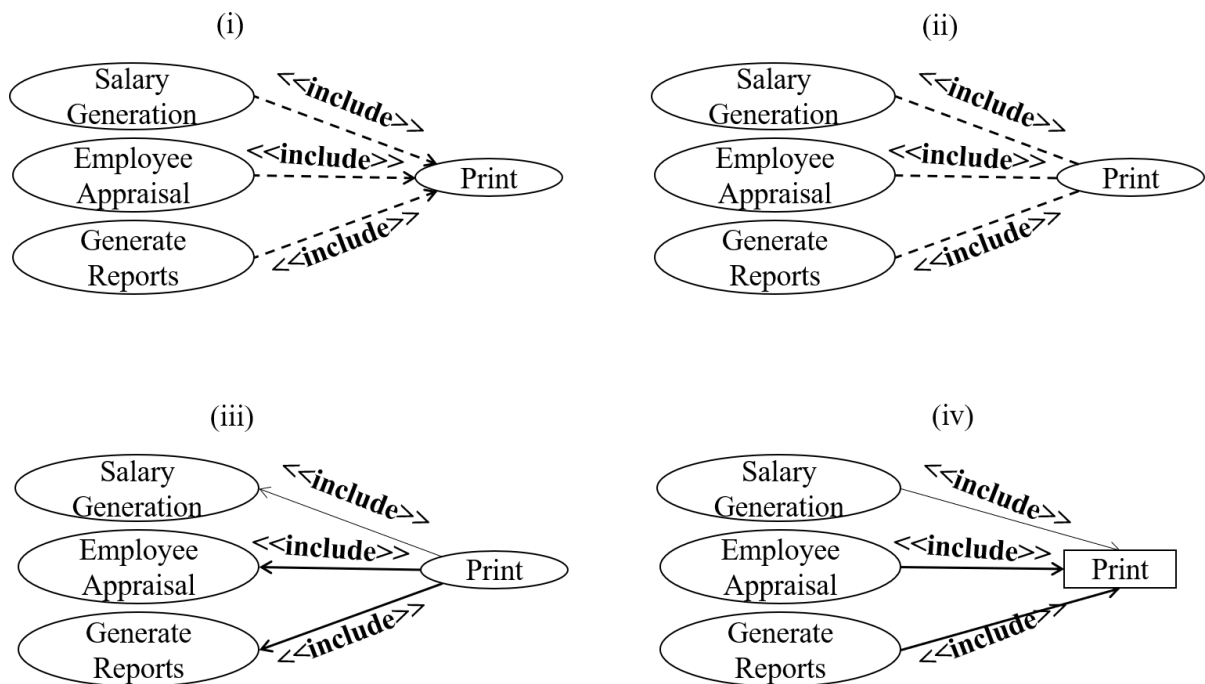
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38. Identify the correct example of relationship for use case diagram:



- a) I
- b) ii
- c) iii**
- d) iv

39. Identify the correct example of relationship for use case diagram:



- a) Diagram (i)**
- b) Diagram (ii)
- c) Diagram (iii)
- d) Diagram (iv)





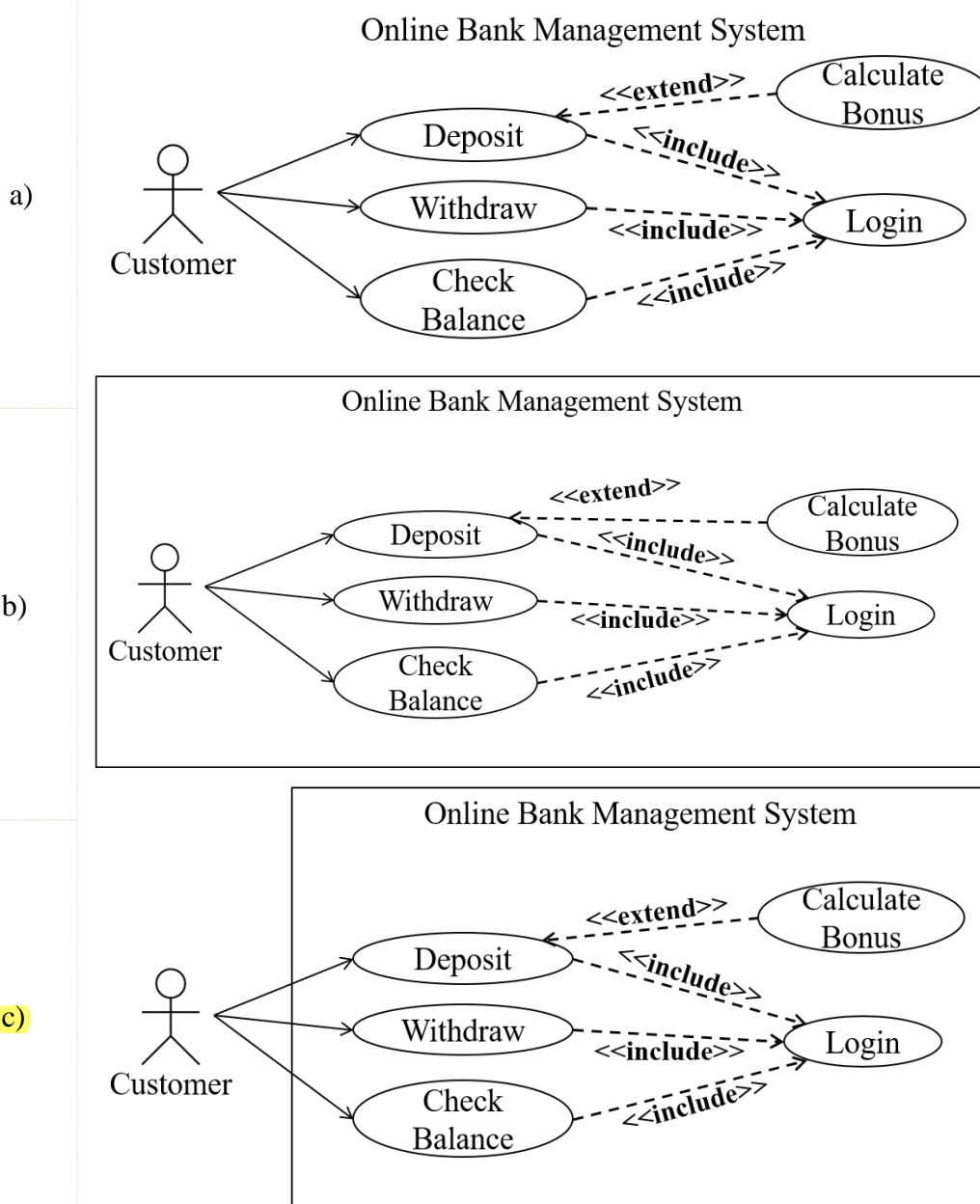
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40. Which of the following is/are the valid relationship(s) in use case diagrams?

- A. Extend
- B. Include
- C. Generalization

- a) Only A not B and C
- b) Only B not A and C
- c) Only A and B not C
- d) All A, B, C

41. Identify the correct use case diagram:





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| d)  |   |
| 42. | For the large systems, many use case diagrams may be represented for the various portions of the system.        |
|     | a) True<br>b) False   |
| 43. | Which is not a component of a use case diagram?   |
|     | a) Actor<br>b) Use case<br>c) Relationship between actor and use case<br>d) Test case                           |
| 44. | Use cases and use case diagrams are used to define:   |
|     | a) Behaviour of a system<br>b) Complexity of a system<br>c) Criticality of a system<br>d) Stability of a system |
| 45. | The popular template for writing use case description is given by:  |
|     | a) B. Boehm<br>b) J. Rumbaugh<br>c) I. Jacobson<br>d) V. Basili   |
| 46. | Which are not included in a use case template?  |
|     | a) Actors<br>b) Flow of events<br>c) Preconditions and postconditions<br>d) Test cases                          |



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| 47.   | A use case scenario is:<br><br>a) An instance of an actor<br>b) An instance of a use case<br>c) An instance of a class<br>d) A path through a process   |
| <u>2.5. Characteristics of Good Requirement</u> |   |
| 48.   | A requirement should be:<br><br>a) Correct<br>b) Unambiguous<br>c) Verifiable<br>d) All of the above  |
| 49.   | Consider the following requirements and identify which characteristic should be consider for these requirements:<br><br>Requirement 1: For new password, alphanumeric of length in the range of 4 to 15 characters. Blank spaces are not allowed.<br><br>Requirement 2: For confirm password, alphanumeric of length in the range of 4 to 15 characters. Blank spaces are not allowed.<br><br>a) Consistent<br>b) Verifiable<br>c) Feasible<br>d) Unambiguous |
| 50.   | A requirement shall be _____ if and only if it is implementable within given time, resources, money and technology.<br><br>a) Verifiable<br>b) clear<br>c) feasible<br>d) necessary   |
| 51.   | Which types of ambiguous words should be avoided in framing the requirements of the system?<br><br>a) Robust, Safe and Accurate<br>b) Flexible and Reliable<br>c) Safely and Quickly<br>d) All of the above   |



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| 52.   | Requirements should be written in....  |
|   | <ul style="list-style-type: none"><li>a) Simple, short and clear sentences.</li><li>b) Simple and large sentences.</li><li>c) Simple with some high standard words.</li><li>d) None of the above</li></ul>   |
| 53.   | Which one is not a characteristic of a good requirement?   |
|   | <ul style="list-style-type: none"><li>a) Complete</li><li>b) Detailed</li><li>c) Unambiguous</li><li>d) Verifiable</li></ul>   |
| <u>2.6. Software Requirement Specification Document</u> |  |
| 54.   | SRS stands for:  |
|   | <ul style="list-style-type: none"><li>a) System Requirement Specification Document</li><li>b) System Requirement Software Document</li><li>c) Software Requirement Specification Document</li><li>d) Software Requirement Specialized Document</li></ul> |
| 55.   | Which document act as a legal document between a customer and a developer?   |
|   | <ul style="list-style-type: none"><li>a) IRD</li><li>b) SRS</li><li>c) Affidavit certificate from lawyer</li><li>d) Advance payment receipt</li></ul>  |
| 56.   | Which is/are the issue(s) that shall be addressed by the SRS writer?   |
|   | <ul style="list-style-type: none"><li>a) Functionally</li><li>b) Performance</li><li>c) Quality attributes</li><li>d) All of the above</li></ul>   |
| 57.   | With which external entities does the system interact?   |
|   | <ul style="list-style-type: none"><li>a) Number of users</li><li>b) Response and recovery time</li><li>c) Processing timing</li><li>d) All of the above</li></ul>  |



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| 58. | The IEEE recommended practice for SRS is:<br><br>a) IEEE std. 829-1998<br><b>b) IEEE std. 830-1998</b><br>c) IEEE std. 1026-1998<br>d) IEEE std. 830-1999   |
| 59. | The IEEE std. 830-1998 was approved on:<br><br><b>a) June 25, 1998</b><br>b) July 30, 1998<br>c) August 25, 1998<br>d) June 25, 1999  |
| 60. | Which tasks should be mention in the scope of the project documentation?<br><br>I. Assign a name to the software under development.<br>II. Name of developers<br>III. List of functions which the software will do.<br>IV. List of functions which the software will not do.<br>V. Explanation about the software applications along with the possible benefits and objectives.<br><br>a) I, II, III<br>b) I, II, III, IV<br>c) I, II, IV, V<br><b>d) I, III, IV, V</b> |
| 61. | Which of the following is not the basic user characteristics required to use any system application?<br><br>a) Qualification<br>b) Technical knowledge<br><b>c) Hardware limitations</b><br>d) Experience   |