

Online Examinations (Even Sem/Part-I/Part-II Examinations 2020 - 2021)

Course Name - --Software Engineering

Course Code - BCA402

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- M.SC.(MM)
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Answer all the questions. Each question carry one mark.

9. 1. Which of the following are advantages of iterative models?

Mark only one oval.

- Early Revenue Generation
- Simpler to manage
- Early Feedback
- all of these

10. 2. Prototyping aims at....

Mark only one oval.

- end user understanding and approval
- program logic
- planning of data flow organization
- None of these

11. 3. Evolutionary software process models are

Mark only one oval.

- Iterative in nature
- Can handle Risk
- both Iterative in nature & Can handle Risk
- None of these

12. 4. Which is the most important feature of Spiral model?

Mark only one oval.

- Quality Management
- Risk Management
- Productivity Management
- Efficiency estimation

13. 5. Which model covers Risk analysis?

Mark only one oval.

- Evolutionary
- Spiral
- Waterfall
- Prototype

14. 6. Which of the following is not a type of SDLC Model?

Mark only one oval.

- Waterfall Model
- Prototype Model
- Capability Maturity Model
- Spiral Model

15. 7. SDLC models can be selected based upon

Mark only one oval.

- Effort of Development team
- Development time
- Cost
- All of these

16. 8. Prototyping model is used for which purpose?

Mark only one oval.

- End user understanding and approval
- Understanding program logic
- Testing is not required
- Covering Risk analysis

17. 9. Which model is also known as Verification and validation model?

Mark only one oval.

- Waterfall model
- Big Bang model
- V- Model
- Spiral Model

18. 10. How many phases are there in Requirement Analysis?

Mark only one oval.

- 3
- 4
- 5
- 6

19. 11. Which of the following is not included in SRS

Mark only one oval.

- Functional Requirement
- Non-functional Requirement
- Goal of implementation
- User Manual

20. 12. DFD is known as

Mark only one oval.

- Design Flow Diagram
- Data Flow Diagram
- Data Function Diagram
- None of these

21. 13. Which symbol in DFD shows a process

Mark only one oval.

- Circle
- Rectangle
- Arrow
- Parallel Line

22. 14. Which of the following describes "Is-a-Relationship"?

Mark only one oval.

- Aggregation
- Generalization
- Dependency
- Normalization

23. 15. Which coupling has the highest degree

Mark only one oval.

- Common
- Data
- Control
- Content

24. 16. UML stands for

Mark only one oval.

- Unified Modeling Language
- Unified Management Language
- Unique Modeling Language
- United Modeling Language

25. 17. Which diagram useful to get an idea of user interface?

Mark only one oval.

- DFD
- ERD
- Decision Tree
- PERT Chart

26. 18. What encapsulates both data and data manipulating functions

Mark only one oval.

- Class
- Super Class
- Activity
- Member Function

27. 19. PERT is known as

Mark only one oval.

- Project Evaluation and Review Technique
- Project Estimation and Review Technique
- Project Equation and Review Technique
- None of these

28. 20. Which is not a size metric?

Mark only one oval.

- LOC
- COCOMO
- Function Point
- Feature Point metric

29. 21. Percentage of modules that were inspected is a part of

Mark only one oval.

- Product Metrics
- Process Metrics
- Project Metrics
- All of these

30. 22. PERT analysis may be done based on

Mark only one oval.

- Optimistic time
- Most likely time
- Pessimistic time
- All of these

31. 23. Which of the following is an indirect measure of product?

Mark only one oval.

- Quality
- Complexity
- Reliability
- All of these

32. 24. Which of the following is a black box testing strategy?

Mark only one oval.

- All Statements Coverage
- Control Structure Coverage
- Boundary Value Analysis
- All Paths Coverage

33. 25. Statement and branch coverage metrics are part of

Mark only one oval.

- Testing
- Source Code
- Design Model
- None of these

34. 26. Test cases are designed by

Mark only one oval.

- Tester
- Developer
- System Analyst
- Client

35. 27. Alpha testing is done at

Mark only one oval.

- Developers end
- Clients end
- both Developers end & Clients end
- None of these

36. 28. Which is known as a bug in testing?

Mark only one oval.

- Error detected in a particular line of code
- An insect
- Name of testing Process
- A virus

37. 29. MTTF is _____

Mark only one oval.

- Maximum time to failure
- Mean time to failure
- Minimum time to failure
- None of these

38. 30. Mention white box testing can be started?

Mark only one oval.

- after SRS creation
- after designing
- after programming
- after installation

39. 31. Which of the life cycle models covers Risk as a part

Mark only one oval.

- RAD Model
- Waterfall Model
- Spiral Model
- Evolutionary Model

40. 32. Which of the following life cycle models can be chosen if client is not very much aware of the requirement?

Mark only one oval.

- Spiral
- Waterfall
- RAD
- Prototype Model

41. 33. Which model is known as meta model?

Mark only one oval.

- Spiral Model
- Agile Model
- RAD Model
- Prototype Model

42. 34. The detailed study of existing system is referred to as

Mark only one oval.

- Feasibility study
- System design
- System Analysis
- System Testing

43. 35. Which of the following life cycle models can be chosen if the development team has less experience on similar projects?

Mark only one oval.

- Waterfall Model
- Spiral Model
- RAD Model
- Iterative enhancement model

44. 36. What is noise in term of software development?

Mark only one oval.

- Giving unnecessary details in SRS
- Writing concise SRS
- Specifying the requirement
- None of these

45. 37. Which is not a requirement gathering process?

Mark only one oval.

- Scenario analysis
- Questioner
- Task Estimation
- Historical Analysis

46. 38. Which DFD notation is represented by the Rectangle?

Mark only one oval.

- Transform
- Entity
- Process
- Data Flow

47. 39. ERD helps to develop

Mark only one oval.

- Table structure of a system
- Cost estimation of a system
- User interface of a system
- Logical complexity of a system

48. 40. What is a collection of operations that specify a service of a class or component?

Mark only one oval.

- Use Cases
- Actor
- Interface
- Relationship

49. 41. Which one may be used to show relationship among different entities?

Mark only one oval.

- Entity-relation diagram
- Activity diagram
- Use Case diagram
- Gantt Chart

50. 42. DFD works for which following purpose

Mark only one oval.

- Decomposition of work
- Control Flow
- Both Decomposition of work and Control Flow
- None of these

51. 43. Which is an object-oriented design?

Mark only one oval.

- UML
- DFD
- ERD
- Structure Chart

52. 44. Size and complexity are a part of which metrics?

Mark only one oval.

- Process Metrics
- Project Metrics
- Product Metrics
- None of these

53. 45. Which one is not a cost estimation technique?

Mark only one oval.

- Delphi cost estimation
- Empirical estimation model
- COCOMO
- Equivalence class partitioning

54. 46. Risk management is one of the most important jobs for _____ -

Mark only one oval.

- Project Manager
- Developer
- Support Team
- None of these

55. 47. Failure of a purchased component to perform comes under _____ Risk

Mark only one oval.

- Project Risk
- Product Risk
- Schedule Risk
- None of these

56. 48. Function point can be calculated as

Mark only one oval.

- $FP = UFP * CAF$
- $FP = UFP + CAF$
- $FP = UFP - CAF$
- None of these

57. 49. A 66.6% risk is considered as

Mark only one oval.

- Low
- Very Low
- High
- Very High

58. 50. Which of the following is not an information domain required for determining function point in FPA?

Mark only one oval.

- Number of user Input
- Number of user Inquiries
- Number of external Interfaces
- Number of errors

59. 51. Which diagram does not include requirement analysis?

Mark only one oval.

- Use Cases
- Entity Relationship Diagram
- State Transition Diagram
- Activity Diagram

60. 52. Critical task may be estimated as

Mark only one oval.

- LS-ES
- LF-E
- Both LS-ES and LF-E
- LS * ES

61. 53. Alpha and Beta Testing are forms of ____ testing

Mark only one oval.

- Acceptance Testing
- System Testing
- Unit Testing
- Integration Testing

62. 54. The testing of software against SRS is called

Mark only one oval.

- Acceptance Testing
- Integration Testing
- System Testing
- Regression Testing

63. 55. What will be the cyclomatic complexity for the following code `void main() { int a, b,c=0; c=a+b; printf("result is",c); }`

Mark only one oval.

- 0
- 1
- 2
- 3

64. 56. Which test refers to the retesting of a unit, integration and system after modification, in order to ascertain that the change has not introduced new faults?

Mark only one oval.

- Regression Test
- Smoke Test
- Alpha Test
- Beta Test

65. 57. Which one is true about Exhaustive testing?

Mark only one oval.

- always possible
- practically possible
- impractical but possible
- impractical and impossible

66. 58. Test cases should uncover errors like

Mark only one oval.

- Nonexistent loop termination
- Comparison of different data types
- Both Nonexistent loop termination and Comparison of different data types
- None of these

67. 59. Which testing is an integration testing approach that is commonly used when “shrink-wrapped” software products are being developed?

Mark only one oval.

- Regression Testing
- Integration testing
- Smoke testing
- Validation testing

68. 60. Testing is done on the basis of

Mark only one oval.

- Test cases
- PERT Chart
- Use cases
- Gantt Chart

69. 61. Smoke Testing is a type of which following testing

Mark only one oval.

- Unit Testing
- Integration Testing
- System Testing
- Acceptance Testing

70. 62. Find the proper matching in following case Group A Group B (a) selenium i. Cost estimation model (b) COCOMO ii. Testing tool (c) MTTF iii. Reliability metric

Mark only one oval.

- (a)-i,(b)-ii,(c)-iii
- (a)-ii,(b)-iii,(c)-i
- (a)-ii,(b)-i,(c)-iii
- (a)-iii,(b)-i,(c)-ii

71. 63. Which one is not a testing procedure?

Mark only one oval.

- after SRS creation
- after designing
- after programming
- after installation

72. 64. Which testing can't be performed with the first built of the software?

Mark only one oval.

- Regression Testing
- Unit Testing
- Acceptance Testing
- Both Unit Testing and Acceptance Testing

73. 65. MTTF and MTBF are used in

Mark only one oval.

- Process Metrics
- Project Metrics
- Reliability Metric
- Cost Metrics

74. 66. SMI stands for

Mark only one oval.

- Software Mature Indicator
- Software Maturity Index
- Software Mature Index
- Software Maturity Indicator

75. 67. Which one of the following states that, adequate statistical techniques are identified and used to verify the acceptability of process capability and product characteristics?

Mark only one oval.

- ISO 9001
- ISO 9000-4
- CMM
- All of these

76. 68. MTBF measures

Mark only one oval.

- Average Time between to failure
- Minimum time required for a failure
- Both Average Time between to failure and Minimum time required for a failure
- None of these

77. 69. CMM stands for

Mark only one oval.

- Capability Management Module
- Conservative Maturity Model
- Capability Maturity Model
- None of these

78. 70. ISO 9001 is not concerned with _____ of quality records

Mark only one oval.

- collection
- maintenance
- verification
- dis-positioning

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