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

Course Name - -Software Engineering Course Code - BCA402

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- MCA
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- M.SC.(MM)
- B.A.(Eng)

Answer all the questions. Each question carry one mark.

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

- 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.

- lterative 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?

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

13. 5. Which model covers Risk analysis?

Mark only one oval.

Evolutionary

- 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



- 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
- 🕖 V- Model
- Spiral Model
- 18. 10. How many phases are there in Requirement Analysis?



- 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

- 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
O Decision Tree
PERT Chart

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

Mark only one oval.

	Class
	01055

- Super Class
- Activity
- Member Function

27. 19. PERT is known as

- 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

- 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

- Optimistic time
- O 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.



- Clients end
- both Developers end & Clients end
- None of these
- 36. 28. Which is known as a bug in testing?

- 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



- 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?



- Questioner
- Task Estimation
- Historical Analysis

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

Mark only one oval.

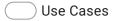
Transform

- ____ 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.



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
- Окосомо
- Equivalence class partitioning
- 54. 46. Risk management is one of the most important jobs for _____-

Mark only one oval.



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

- Low Very Low High
- Very High

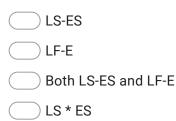
58. 50. Which of the following is not an information domain required for determining function point in FPA?

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



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); }

- 0)
- 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

- 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
- 🔵 Gnatt Chart
- 69. 61. Smoke Testing is a type of which following 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.



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 9001ISO 9000-4

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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