



**Mangalmai Institute of Management Technology**  
Greater Noida (U.P.)



**MANGALMAY**  
INSTITUTE OF MANAGEMENT TECHNOLOGY



# **CERTIFICATION PROGRAMME**

**On**

**Software Testing tools and Techniques**

**From**

**16<sup>th</sup> March - 02<sup>th</sup> June 2023**

**Convener: Mr. Abhay N Tripathi, Associate Professor, MIMT**

**For BCA II<sup>nd</sup> Semester**

**Resource Person**

**Mr. Krishan Kumar**  
**Assistant Professor, MIMT**



**Syllabus**  
**Software Testing tools and Techniques**

**Duration: 30 Hours**

**Module I:**

**Definition of Software Testing and its Role Terms:-** Failure, Error, Fault, Defect, Bug, Goals of Testing, Principles of Testing, Software Testing Life Cycle, Verification and Validation :- V-testing Life cycle, Static and Dynamic Testing, Manual Testing, Automated Testing, Supported Technologies for Software Testing, Software Testing Certifications. Software Development Life Cycle, SDLC Models, Software Test Levels, Software Test Types, Software Test Design Techniques, Software Test Process / STLC, Software Quality Standards, Software Test Documents.

**Module II:**

**Types of Testing:-**Black Box Testing Overview: What is & When? Techniques, Boundary Value Analysis, Equivalence class testing o Decision Table, White Box Testing, Need of white box Testing, **Classification, Structural** : Coverage, Path, Static : Inspection, Walkthrough , Technical Review, Level of Testing:- Unit Testing integration Testing, Techniques: Graph based, & Path based Functional Testing, System Testing, Categories: Reliability Security Performance Recovery, Acceptance Testing : Overview, Types of Acceptance Testing.

**Module III:**

**Software Testing Tools:-** Functional Testing using Selenium, Performance Testing, Functional Testing using UFT, Test Management using JIRA, Defect Management using HP ALM tool , Regression Testing, Functional Testing using Test Complete, API Testing, Database Testing, ETL Testing.

**TEXT BOOK/S:**

Software Testing: Principles and Practice by SrinivasanDesikan, GopaldaswamyRamesh,Pearson.  
Software Testing: Principles and Practice by NareshChauhan,Oxford.

**REFERENCE BOOK/S:**

Software Testing: Easy Learning Approach by ShubhaAgarwalKundlas.

**WEB RESOURCES:**

<https://www.guru99.com> › software-testing-introduction-importance



**Schedule**

<b>Duration:30hours</b>			
<b>Session</b>	<b>Content</b>	<b>Time</b>	<b>Date</b>
1.	Discussion about the subject syllabus and learning outcome	03:00-04:30	16/03/2023
2.	Failure, Error, Fault, Defect, Bug, Goals of Testing	03:00-04:30	17/03/2023
3.	Principles of Testing, Software Testing Life Cycle	03:00-04:30	23/03/2023
4.	Verification and Validation :- V-testing Life cycle, Static and Dynamic Testing,	03:00-04:30	24/03/2023
5.	Software Test Levels, Software Test Types	03:00-04:30	31/03/2023
6.	Software Test Design Techniques, Software Test Process / STLC	03:00-04:30	13/04/2023
7.	Software Quality Standards, Software Test Documents.	03:00-04:30	20/04/2023
8.	Revision of Module 1	03:00-04:30	21/04/2023
9.	Black Box Testing, What is & When?	03:00-04:30	27/04/2023
10.	Boundary Value Analysis, Equivalence class testing Decision Table	03:00-04:30	28/04/2023
11.	White Box Testing, Need of white box Testing	03:00-04:30	04/05/2023
12.	Coverage, Path, Static, Inspection, Walkthrough , Technical Review	03:00-04:30	05/05/2023
13.	Level of Testing:- Unit Testing integration Testing, Techniques	03:00-04:30	18/05/2023
14.	Functional Testing, System Testing	03:00-04:30	19/05/2023
15.	Categories: Reliability Security Performance Recovery	03:30-05:00	25/05/2023
16.	Functional Testing using Selenium, Performance Testing	03:00-04:30	26/05/2023
17.	Functional Testing using UFT	03:00-04:30	30/05/2023
18.	Test Management using JIRA, Defect Management using HP ALM tool	03:00-04:30	31/05/2023
19.	Regression Testing, Functional Testing using Test Complete	03:00-04:30	01/06/2023
20.	API Testing, Database Testing, ETL Testing	03:00-04:30	02/06/2023



	<b>Report</b>
<b>NameofActivity</b>	Software Testing tools and Techniques
<b>Date</b>	16 <sup>th</sup> March2023 to02 <sup>nd</sup> June2023
<b>Venue</b>	BCAClassroom
<b>Organizedby</b>	ComputerApplicationDepartment
<b>ResourcePerson</b>	Mr. Krishan Kumar, AssistantProfessor,MIMT
<b>Beneficiaries</b>	BCA2ndSemester(105 students)
<b>Convener</b>	Mr. Abhay N Tripathi , Associate Professor, MIMT
<b>Objective</b>	<p>Thecourseisdesignedto learn how to planning a test project, design test cases and data, conduct testing operations, manage software problems and defects, generate a testing report and other skillslike:</p> <ul style="list-style-type: none"><li>• Finding defects which may get created by the programmer while developing the software.</li><li>• Gaining confidence in and providing information about the level of quality</li><li>• To make sure that the end result meets the business and user requirements</li></ul>
<b>Content</b>	<p>WiththeinitiativeofIQAC,MangalmayInstituteofManagementandTechnologyorganizedaddoncertificationcourseon“Software testing tools and techniques”. The course enabled the students toacquire knowledge ofSoftware Testing.</p> <p>Day1:Thesessionstarted withthediscussionaboutthesubjectsyllabusandlearningoutcome.</p> <p>Day2:Thesessionstartedwiththe difference between Failure, Error, Fault, Defect, and Bug.</p> <p>Day3: Inthissession explain Principles of Testing and Software Testing Life Cycle</p> <p>Day4: in this session differentiate Verification and Validation.</p> <p>Day5:Inthissession, describe Software Test Levels and Software Test Types.</p> <p>Day6:Thisessionwas focusedon Software Test Design Techniques</p> <p>Day7:In this session, the resource persons discussed the Software Test Documents.</p> <p>Day 8: Revisionofmodule 1takesplace.</p> <p>Day9: Inthissession,resourcepersondiscussedabout theBlack Box Testing .</p> <p>Day 10: Inthissession,resourceperson in lighting on Boundary Value Analysis and Equivalence class testing Decision Table.</p> <p>Day11:Inthissession,resourcepersondiscussedabout theWhite Box Testing and explain what is the need of white box Testing.</p> <p>Day 12: Inthissession,resourcepersonexplain Coverage, Path, Static, Inspection and Walkthrough.</p> <p>Day13: Inthissession,Level of Testing,discussedbytheresourceperson.</p> <p>Day14:Inthissession resource person discuss on Functional Testing and System Testing .</p>



	<p>Day15: In this session the resource person discuss Categories: Reliability Security and Performance Recovery.</p> <p>Day16: The resource person hands on using Selenium tool, to explain automation testing.</p> <p>Day17: The resource person taught about Functional Testing using UFT</p> <p>Day18: In this session resource person give hand on and explain how tool work for Test Management using JIRA.</p> <p>Day19: This session was about the Regression Testing.</p> <p>Day20: In this session resource person discuss on API Testing, Database Testing.</p>
<b>Outcome of Activity</b>	<ul style="list-style-type: none"><li>• Understand and describe the basic concepts of functional (black box) software testing.</li><li>• Understand the basic application of techniques used to identify useful ideas for tests.</li><li>• Characterize a good bug report, peer-review the reports of your colleagues, and improve your own report writing.</li></ul>



**Mangalmay Institute of Management Technology**  
Greater Noida (U.P.)



**Resource Person Profile**

Name: Mr Krishna Kumar, Assistant Professor  
Organization: MIMT  
Core Skills: Data Security, Software testing  
Qualification: MCA, M. Tech  
Experience: 18 years  
Research Area: Regression Testing



**MANGALMAY**  
INSTITUTE OF MANAGEMENT TECHNOLOGY  
Gr. NOIDA



**CERTIFICATE OF COURSE COMPLETION**

This is to certify the **AAKASH CHAUHAN** student of BCA (Batch: 2022-25) has successfully completed 30 Hours course on "Software Testing tools and Techniques" from 16-March-2023 to 02-June-2023

PRINCIPAL  
Mangalmay Institute of  
Management & Technology

CONVENER  
Mangalmay Institute of  
Management Technology



Course: BCA

ADD-ON COURSE QUIZ

Time: 30 Min

Course Name: Software Testing Tools & Techniques

Date: 08/06/2023

Roll No:

Name: Aakash Chauhan

Year/Sem: I/II

Invigilator's Sign:

Note: All questions are compulsory. Each question will carry '1' mark and there is no 'Negative Marking'

- 1) Which of the following is not part of the Test document?
  - a.) Test Case
  - b.) Requirements Traceability Matrix [RTM] (1)
  - c.) Test strategy
  - d.) Project Initiation Note [PIN] (1)
- 2) Which of the following is not a valid phase of SDLC (Software Development Life Cycle)?
  - a.) Testing Phase
  - b.) Requirement Phase (1)
  - c.) Deployment phase
  - d.) Testing closure (1)
- 3) Which of the following testing is also known as white-box testing?
  - a.) Structural testing (1)
  - b.) Error guessing technique (1)
  - c.) Design based testing
  - d.) None of the above
- 4) Which of the following testing is related to the boundary value analysis?
  - a.) White box and black box testing
  - b.) White-box testing (1)
  - c.) Black box testing (1)
  - d.) None of the above (1)
- 5) What are the different levels of Testing?
  - a.) Integration testing
  - b.) Unit testing (1)
  - c.) System testing
  - d.) All of the above (1)
- 6) In which environment we can performed the Alpha testing?
  - a.) User's end
  - b.) Developer's end (1)
  - c.) User's and developer's end
  - d.) None of the above
- 7) - What is the key objective of Integration testing?
  - a.) Design Errors
  - b.) Interface Errors (1)
  - c.) Procedure Errors
  - d.) None of the mentioned
- 8) What is the best time to perform Regression testing?
  - a.) After the software has been modified
  - b.) As frequently as possible
  - c.) When the environment has been modified
  - d.) Both option a & c (1)
- 9) In which environment we can perform the Beta testing?
  - a.) User's and developer's end
  - b.) Developer's end (1)
  - c.) User's end (1)
  - d.) None of the above
- 10) When we have to stop the testing?
  - a.) The faults have been fixed
  - b.) All the tests run
  - c.) The time completed
  - d.) The risk is resolved (1)

- 11) Which term is used to define testing?
- a.) Evaluating deliverable to find errors    b.)  Finding broken code X  
c.) A stage of all projects    d.) None of the above
- 12) Which of the following testing is also known as white-box testing?
- a.)  Structural testing    b.) Error guessing technique ①  
c.) Design based testing    d.) None of the above
- 13) Functional testing is a -----?
- a.) Test design technique    b.)  Test level ①  
c.) SDLC Model    d.) Test type
- 14) Sanity testing is a -----?
- a.) Test type    b.)  Test Execution Level ①  
c.) Test Level    d.) Test design technique
- 15) In which environment we can performed the Alpha testing?
- a.) User's end    b.)  Developer's end ①  
c.) User's and developer's end    d.) None of the above

----- For Departmental use only -----

Max. Marks: 15

Marks Obtained: 14

Name of Evaluator:

*Rehman Kumar*

Sign.

*Rehman*





Course: BCA

ADD-ON COURSE QUIZ

Time: 30 Min

Course Name: Software Testing Tools & Techniques

Date: 08/06/2023

Roll No:

Name: Adarsh

Year/Sem: I/II

Invigilator's Sign:

Note: All questions are compulsory. Each question will carry '1' mark and there is no 'Negative Marking'

- 1) Which of the following is not part of the Test document?
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- 2) Which of the following is not a valid phase of SDLC (Software Development Life Cycle)?
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  - d.) None of the above
- 4) Which of the following testing is related to the boundary value analysis?
  - a.) White box and black box testing
  - b.) White-box testing
  - c.) Black box testing
  - d.) None of the above
- 5) What are the different levels of Testing?
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  - c.) System testing
  - d.) All of the above
- 6) In which environment we can performed the Alpha testing?
  - a.) User's end
  - b.) Developer's end
  - c.) User's and developer's end
  - d.) None of the above
- 7) - What is the key objective of Integration testing?
  - a.) Design Errors
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  - d.) Both option a & c
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  - a.) User's and developer's end
  - b.) Developer's end
  - c.) User's end
  - d.) None of the above
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  - a.) The faults have been fixed
  - b.) All the tests run
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  - d.) The risk is resolved

- 11) Which term is used to define testing?
  - a.) Evaluating deliverable to find errors
  - b.)  Finding broken code
  - c.) A stage of all projects
  - d.) None of the above
- 12) Which of the following testing is also known as white-box testing?
  - a.) Structural testing
  - b.) Error guessing technique
  - c.) Design based testing
  - d.)  None of the above
- 13) Functional testing is a -----?
  - a.) Test design technique
  - b.)  Test level
  - c.) SDLC Model
  - d.) Test type
- 14) Sanity testing is a -----?
  - a.) Test type
  - b.)  Test Execution Level
  - c.) Test Level
  - d.) Test design technique
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  - a.) User's end
  - b.)  Developer's end
  - c.) User's and developer's end
  - d.) None of the above


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Max. Marks: 15

Marks Obtained: 12

Name of Evaluator:

Sign. 





Course: BCA

ADD-ON COURSE QUIZ

Time: 30 Min

Course Name: Software Testing Tools & Techniques

Date: 00/06/2023

Roll No:

Name: Aman Kumar

Year/Sem: I/II

Invigilator's Sign:

Note: All questions are compulsory. Each question will carry '1' mark and there is no 'Negative Marking'

- Which of the following is not part of the Test document?
  - ~~a.) Test Case~~
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  - d.) None of the above
- Which of the following testing is related to the boundary value analysis?
  - a.) White box and black box testing
  - b.) White-box testing (1)
  - c.) ~~Black box testing~~
  - d.) None of the above
- What are the different levels of Testing?
  - a.) Integration testing
  - b.) Unit testing (1)
  - c.) System testing
  - d.) ~~All of the above~~
- In which environment we can performed the Alpha testing?
  - a.) User's end
  - b.) ~~Developer's end~~ (1)
  - c.) User's and developer's end
  - d.) None of the above
- What is the key objective of Integration testing?
  - a.) Design Errors
  - b.) ~~Interface Errors~~ (1)
  - c.) Procedure Errors
  - d.) None of the mentioned
- What is the best time to perform Regression testing?
  - a.) After the software has been modified
  - b.) As frequently as possible (1)
  - c.) When the environment has been modified
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- In which environment we can perform the Beta testing?
  - a.) User's and developer's end
  - b.) Developer's end (1)
  - c.) ~~User's end~~
  - d.) None of the above
- When we have to stop the testing?
  - a.) The faults have been fixed
  - b.) ~~All the tests run~~ (1)
  - c.) The time completed
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- 11) Which term is used to define testing?
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- c.) A stage of all projects    d.) None of the above
- 12) Which of the following testing is also known as white-box testing?
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- c.) Design based testing    d.) None of the above
- 13) Functional testing is a -----?
- a.) Test design technique    b.)  Test level
- c.) SDLC Model    d.) Test type
- 14) Sanity testing is a -----?
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- a.) User's end    b.)  Developer's end
- c.) User's and developer's end    d.) None of the above

----- For Departmental use only -----

Max. Marks: 15

Marks Obtained: 14

Name of Evaluator:

Sign. 





Course: BCA

ADD-ON COURSE QUIZ

Time: 30 Min

Course Name: Software Testing Tools & Techniques

Date: 08/06/2023

Roll No:

Name: Gaurav

Year/Sem: I/II

Invigilator's Sign:

Note: All questions are compulsory. Each question will carry '1' mark and there is no 'Negative Marking'

1) Which of the following is not part of the Test document?

- a.) Test Case  
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c.) Test strategy  
d.) Project Initiation Note [PIN] (1)

2) Which of the following is not a valid phase of SDLC (Software Development Life Cycle)?

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c.) Deployment phase  
d.) Testing closure (1)

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c.) Design based testing  
d.) None of the above (1)

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d.) All of the above (1)

6) In which environment we can performed the Alpha testing?

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7) - What is the key objective of Integration testing?

- a.) Design Errors  
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8) What is the best time to perform Regression testing?

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- a.) Evaluating deliverable to find errors      b.) Finding broken code ✓ X
- c.) A stage of all projects                      d.) None of the above
- 12) Which of the following testing is also known as white-box testing?
- a.) Structural testing                              b.) Error guessing technique
- c.) Design based testing                        d.) None of the above ✓ X
- 13) Functional testing is a -----?
- a.) Test design technique                      b.) Test level ✓ (1)
- c.) SDLC Model                                    d.) Test type (1)
- 14) Sanity testing is a -----?
- a.) Test type                                        b.) Test Execution Level ✓ (1)
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- 15) In which environment we can performed the Alpha testing?
- a.) User's end                                      b.) Developer's end ✓
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----- For Departmental use only -----

Max. Marks: 15

Marks Obtained: 12

Name of Evaluator:

Rehman

Sign.

Rehman



Course: BCA

ADD-ON COURSE QUIZ

Time: 30 Min

Course Name: Software Testing Tools & Techniques

Date: 08/06/2023

Roll No:

Name: Karan

Year/Sem: I/II

Invigilator's Sign:

Note: All questions are compulsory. Each question will carry '1' mark and there is no 'Negative Marking'

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----- For Departmental use only -----

Max. Marks: 15

Marks Obtained: 11

Name of Evaluator:

Sign.

*1/20/2019*

*Forn*





Course: BCA

ADD-ON COURSE QUIZ  
Course Name: Software Testing Tools & Techniques

Time: 30 Min  
Date: 08/06/2023

Roll No:

Name: Mamta

Year/Sem: I/II

Invigilator's Sign:

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- a.) Test design technique ✓    b.) Test level (1)
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- a.) User's end    b.) Developer's end (1)
- c.) User's and developer's end    d.) None of the above (1)

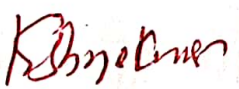
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Max. Marks: 15

Marks Obtained: 10

Name of Evaluator:

Sign. 





Course: BCA

ADD-ON COURSE QUIZ

Time: 30 Min

Course Name: Software Testing Tools & Techniques

Date: 08/06/2023

Roll No:

Name: Nikita

Year/Sem: I/II

Invigilator's Sign:

Note: All questions are compulsory. Each question will carry '1' mark and there is no 'Negative Marking'

- 1) Which of the following is not part of the Test document?
  - a.) Test Case
  - b.) Requirements Traceability Matrix [RTM]
  - c.) Test strategy
  - d.) Project Initiation Note [PIN] (1)
- 2) Which of the following is not a valid phase of SDLC (Software Development Life Cycle)?
  - a.) Testing Phase
  - b.) Requirement Phase (X)
  - c.) Deployment phase
  - d.) Testing closure
- 3) Which of the following testing is also known as white-box testing?
  - a.) Structural testing (1)
  - b.) Error guessing technique (1)
  - c.) Design based testing
  - d.) None of the above
- 4) Which of the following testing is related to the boundary value analysis?
  - a.) White box and black box testing
  - b.) White-box testing (1)
  - c.) Black box testing
  - d.) None of the above
- 5) What are the different levels of Testing?
  - a.) Integration testing
  - b.) Unit testing (X)
  - c.) System testing
  - d.) All of the above
- 6) In which environment we can performed the Alpha testing?
  - a.) User's end
  - b.) Developer's end (1)
  - c.) User's and developer's end
  - d.) None of the above
- 7) - What is the key objective of Integration testing?
  - a.) Design Errors
  - b.) Interface Errors (1)
  - c.) Procedure Errors
  - d.) None of the mentioned
- 8) What is the best time to perform Regression testing?
  - a.) After the software has been modified
  - b.) As frequently as possible (1)
  - c.) When the environment has been modified
  - d.) Both option a & c
- 9) In which environment we can perform the Beta testing?
  - a.) User's and developer's end
  - b.) Developer's end (1)
  - c.) User's end
  - d.) None of the above
- 10) When we have to stop the testing?
  - a.) The faults have been fixed
  - b.) All the tests run (1)
  - c.) The time completed
  - d.) The risk is resolved

- 11) Which term is used to define testing?
- a.) Evaluating deliverable to find errors     b.) Finding broken code
- c.) A stage of all projects    d.) None of the above
- 12) Which of the following testing is also known as white-box testing?
- a.) Structural testing    b.) Error guessing technique
- c.) Design based testing     d.) None of the above
- 13) Functional testing is a -----?
- a.) Test design technique     b.) Test level
- c.) SDLC Model    d.) Test type
- 14) Sanity testing is a -----?
- a.) Test type     b.) Test Execution Level
- c.) Test Level    d.) Test design technique
- 15) In which environment we can performed the Alpha testing?
- a.) User's end     b.) Developer's end
- c.) User's and developer's end    d.) None of the above

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Max. Marks: 15

Marks Obtained: 10

Name of Evaluator:  
*Rishu Kumar*

Sign.  
*[Signature]*



Course: BCA

ADD-ON COURSE QUIZ

Time: 30 Min

Course Name: Software Testing Tools & Techniques

Date: 08/06/2023

Roll No:

Name: Rajan Singh

Year/Sem: I/II

Invigilator's Sign:

Note: All questions are compulsory. Each question will carry '1' mark and there is no 'Negative Marking'

- 1) Which of the following is not part of the Test document?
  - a.) Test Case
  - b.) Requirements Traceability Matrix [RTM]
  - c.) Test strategy
  - d.) Project Initiation Note [PIN]
- 2) Which of the following is not a valid phase of SDLC (Software Development Life Cycle)?
  - a.) Testing Phase
  - b.) Requirement Phase
  - c.) Deployment phase
  - d.) Testing closure
- 3) Which of the following testing is also known as white-box testing?
  - a.) Structural testing
  - b.) Error guessing technique
  - c.) Design based testing
  - d.) None of the above
- 4) Which of the following testing is related to the boundary value analysis?
  - a.) White box and black box testing
  - b.) White-box testing
  - c.) Black box testing
  - d.) None of the above
- 5) What are the different levels of Testing?
  - a.) Integration testing
  - b.) Unit testing
  - c.) System testing
  - d.) All of the above
- 6) In which environment we can performed the Alpha testing?
  - a.) User's end
  - b.) Developer's end
  - c.) User's and developer's end
  - d.) None of the above
- 7) - What is the key objective of Integration testing?
  - a.) Design Errors
  - b.) Interface Errors
  - c.) Procedure Errors
  - d.) None of the mentioned
- 8) What is the best time to perform Regression testing?
  - a.) After the software has been modified
  - b.) As frequently as possible
  - c.) When the environment has been modified
  - d.) Both option a & c
- 9) In which environment we can perform the Beta testing?
  - a.) User's and developer's end
  - b.) Developer's end
  - c.) User's end
  - d.) None of the above
- 10) When we have to stop the testing?
  - a.) The faults have been fixed
  - b.) All the tests run
  - c.) The time completed
  - d.) The risk is resolved

- 11) Which term is used to define testing?  
a.) Evaluating deliverable to find errors  b.) Finding broken code  
c.) A stage of all projects d.) None of the above
- 12) Which of the following testing is also known as white-box testing?  
a.) Structural testing b.) Error guessing technique  
c.) Design based testing  d.) None of the above
- 13) Functional testing is a -----?  
a.) Test design technique  b.) Test level  
c.) SDLC Model d.) Test type
- 14) Sanity testing is a -----?  
a.) Test type  b.) Test Execution Level  
c.) Test Level d.) Test design technique
- 15) In which environment we can performed the Alpha testing?  
a.) User's end  b.) Developer's end  
c.) User's and developer's end d.) None of the above

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Max. Marks: 15

Marks Obtained: 10

Name of Evaluator:

Sign.

*Prabir Kumar*

*[Signature]*



Course: BCA

ADD-ON COURSE QUIZ

Time: 30 Min

Course Name: Software Testing Tools & Techniques

Date: 08/06/2023

Roll No:

Name: Shivam

Year/Sem: III

Invigilator's Sign:

Note: All questions are compulsory. Each question will carry '1' mark and there is no 'Negative Marking'

1) Which of the following is not part of the Test document?

- a.) Test Case  
b.) Requirements Traceability Matrix [RTM]  
c.) Test strategy  
d.) Project Initiation Note [PIN]

2) Which of the following is not a valid phase of SDLC (Software Development Life Cycle)?

- a.) Testing Phase  
b.) Requirement Phase  
c.) Deployment phase  
d.) Testing closure

3) Which of the following testing is also known as white-box testing?

- a.) Structural testing  
b.) Error guessing technique  
c.) Design based testing  
d.) None of the above

4) Which of the following testing is related to the boundary value analysis?

- a.) White box and black box testing  
b.) White-box testing  
c.) Black box testing  
d.) None of the above

5) What are the different levels of Testing?

- a.) Integration testing  
b.) Unit testing  
c.) System testing  
d.) All of the above

6) In which environment we can performed the Alpha testing?

- a.) User's end  
b.) Developer's end  
c.) User's and developer's end  
d.) None of the above

7) - What is the key objective of Integration testing?

- a.) Design Errors  
b.) Interface Errors  
c.) Procedure Errors  
d.) None of the mentioned

8) What is the best time to perform Regression testing?

- a.) After the software has been modified  
b.) As frequently as possible  
c.) When the environment has been modified  
d.) Both option a & c

9) In which environment we can perform the Beta testing?

- a.) User's and developer's end  
b.) Developer's end  
c.) User's end  
d.) None of the above

10) When we have to stop the testing?

- a.) The faults have been fixed  
b.) All the tests run  
c.) The time completed  
d.) The risk is resolved

- 11) Which term is used to define testing?  
a.) Evaluating deliverable to find errors  b.) Finding broken code   
c.) A stage of all projects  d.) None of the above
- 12) Which of the following testing is also known as white-box testing?  
a.) Structural testing  b.) Error guessing technique   
c.) Design based testing  d.) None of the above
- 13) Functional testing is a -----?  
a.) Test design technique  b.) Test level   
c.) SDLC Model  d.) Test type
- 14) Sanity testing is a -----?  
a.) Test type  b.) Test Execution Level   
c.) Test Level  d.) Test design technique
- 15) In which environment we can performed the Alpha testing?  
a.) User's end  b.) Developer's end   
c.) User's and developer's end  d.) None of the above

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Max. Marks: 15

Marks Obtained: 13

Name of Evaluator:

Sign.

*Rehman Khan*

*[Signature]*