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Barasat, Kolkata -700125

## BRAINWARE UNIVERSITY

Term End Examination 2024-2025

Programme – Dip.CSE-2022

Course Name – Software Testing

Course Code - DCSE-PE601B

( Semester VI )

Full Marks : 60

Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

### Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following :

- (i) Select the following is not part of the Test type
  - a) Function testing
  - b) System testing
  - c) Statement testing
  - d) Database testing
- (ii) Select the different levels of Testing.
  - a) Integration of testing
  - b) Unit of testing
  - c) System of testing
  - d) All of the four
- (iii) Select 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
- (iv) Identify the following testing is also known as white-box testing
  - a) Structural of testing
  - b) Error guessing of the technique
  - c) Design based of testing
  - d) None
- (v) Select 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]
- (vi) Identify the below is not a part of the Test Plan
  - a) Schedule
  - b) Risk
  - c) Incident reports
  - d) Entry and exit criteria
- (vii) Identify System testing is a
  - a) Gray Box Testing
  - b) White Box Testing
  - c) Black Box Testing
  - d) Both a and c
- (viii) Identify of the below is not a part of the Test Plan
  - a) Schedule
  - b) Risk
  - c) Incident reports
  - d) Entry and exit criteria
- (ix) Identify the best time to perform Regression testing

- a) After the software has been modified  
c) When the environment has been modified  
(x) Show the testing technique is used for usability testing  
a) White-box testing  
c) Black Box testing  
(xi) Choose the test levels are performed in that of the following order  
a) Unit, Integration, System, Acceptance  
c) Unit, Integration, Acceptance, System  
(xii) Identify the below testing is executed without documentation and planning is known as  
a) Regression of Testing  
c) Unit of Testing  
(xiii) Choose the following testing is also called Acceptance testing  
a) Beta testing  
c) Grey box testing  
(xiv) Choose The Regression test case is not a  
a) Tests that focus on the software components, which have been modified.  
c) Additional tests that emphasize software functions, which are likely to be affected by the change.  
(xv) Identify the testing is used that shrink-wrapped software products are being established and part of an integration testing  
a) Integration Testing  
c) Regression Testing  
b) As frequently as possible  
d) Both option a & c  
b) Grey box testing  
d) Combination of all  
b) It is based on the nature of the project  
d) Unit, System, Integration, Acceptance  
b) Adhoc of Testing  
d) None  
b) White-box testing  
d) Alpha testing  
b) Low-level components are combined into clusters, which perform a specific software sub-function  
d) A representative sample of tests, which will exercise all software functions.  
b) Validation testing  
d) Smoke testing

#### Group-B

(Short Answer Type Questions)

3 x 5=15

2. Define the Software testing (3)  
3. Define test case Design Strategies. (3)  
4. Define different Black Box Testing Techniques. (3)  
5. Identify Ad-hoc testing. (3)  
6. Choose skills needed for automation. (3)

OR

Choose design and architecture for automation. (3)

#### Group-C

(Long Answer Type Questions)

5 x 6=30

7. Analyze building a Testing Group. (5)  
8. Choose Organization structures for testing teams. (5)  
9. Describe Test Maturity Model (5)  
10. Define Levels of Test Maturity Model. (5)  
11. Identify testing shows the presence of defects. (5)  
12. Evaluate Test Planning. (5)

OR

Evaluate Test Plan Components. (5)

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