MCQ Quiz-1(PMSCS-670)

Questions

There are 25 MCQ questions. Each of them have point value 1.

The process of evaluating software at the end of software development to ensure compliance with intended usage is called _____.   1 point

○ Verification

● Validation

○ Authorization

○ Authentication

The process of repeating the same test cases again and again, eventually, the same test cases will no longer find new bugs is called _____.   1 point

○ Absence of Error-Fallacy

● Pesticide Paradox

○ Defect Clustering

○ Early Testing

The objective _____ is to check the robustness of the application   1 point

○ Load Testing

● Gorilla Testing

○ Stress Testing

○ Regression

○ None of the options

Based on test process maturity, which of the following is the Level-1 testing   1 point
goal?

● The purpose of testing is to show correctness.

○ The purpose of testing is to show that the software doesn't work.

○ There's no difference between testing and debugging.

○ The purpose of testing is not to prove anything specific, but to reduce the risk of using the software.

In the traditional Software Testing "V Model" which of the following testing   1 point
is mapped with the "Detailed Design" phase?

○ Unit Testing

○ Acceptance Testing

● Module Testing

○ System Testing

Specific things that must be satisfied or covered during testing is called _____. 1 point

- 🔴 Test Requirements
- ⚪ Test Criterion
- ⚪ Test Harness
- ⚪ None of the above

The objective of Happy Path Testing is _____. 1 point

- ⚪ to check if an application or system gets crashed by providing random input values/data
- 🔴 to test an application successfully on a positive flow
- ⚪ to check the robustness of the application
- ⚪ to check how much load or maximum workload a system can handle without any performance degradation

Derive tests from external descriptions of the software, including specifications, requirements, and design is known as _____ testing. 1 point

- ⚪ White Box
- 🔴 Black Box
- ⚪ Model-based
- ⚪ Regression

Testing how modules interact with each other is known as _____. 1 point

○ System testing

○ Unit testing

○ Integration testing

● Module testing

Inter-class testing is _____. 1 point

○ Test an entire class as sequences of calls.

○ Test pairs of methods in the same class.

○ Test each method individually.

● Test multiple classes together.

Testing how modules interact with each other is known as _____. 1 point

● Module testing

○ Unit testing

○ None of the options

○ Integration testing

○ System testing

Testing the overall functionality of the system is known as _____ testing. 1 point

○ Acceptance

● System

○ Integration

○ Module

Which of the following is not a responsibility of a Test Engineer? 1 point

○ Designing test inputs

○ Producing test values

● Sets test policies and processes

○ Running test scripts

"The purpose of testing is not to prove anything specific, but to reduce the 1 point
risk of the software" is _____ testing goal.

○ Level-1

○ Level-2

● Level-3

○ Level-4

In the context of software testing the acronym MDTD stand for?　1 point

○ Model Development Test Design

● Model Driven Test Design

○ Model Development Test Development

○ Model Driven Test Development

Embedding test values into executable scripts is done in which MDTD　1 point
activities?

○ Test Evaluation

○ Test Execution

○ Test Design

● Test Automation

Which of the following is the lowest level of testing according to the V-　1 point
Model

○ System testing

● Unit testing

○ Integration testing

○ Module testing

The process of finding a fault given a failure is known as _____.   1 point

○ Testing

○ Coding

● Debugging

○ Triggering

How easy it is to provide a program with the needed inputs, in terms of   1 point
values, operations, and behaviors is called _____.

● Controllability

○ Observability

○ Abstraction

○ Automation

Which of the followings are example of functional testing?   1 point

☐ Performance Testing

☐ Load Testing

■ Regression Testing

■ Acceptance Testing

■ Integration Testing

☐ Volume Testing

☐ Recovery Testing

☐ Compliance Testing

The aim of _____ is to determine whether the software or application is accessible for disabled people or not.   1 point

- 🔴 Accessibility Testing
- ⭕ Compatibility Testing
- ⭕ Regression Testing
- ⭕ Alpha Testing

Which of the following is not belong to the activity of a Test Engineer?   1 point

- ⭕ Designing test inputs
- ⭕ Producing test values
- ⭕ Analyzing results
- 🔴 Sets test policies and processes

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MCQ Quiz-1(PMSCS-670)

Answer all the following questions based on the given code segment.

Which test case executes the fault, but does not result in an error?   1 point

○ {7,8,9,10}

○ {0,0,0,0}

○ {0,3,0,2}

○ {1,0,2,0}

Java Code:

Following code segment count number of occurrence of zeros in any given array arr.

```java
public static int countZero(int []arr)
{
    int count=0;
    for(int i=0;i<arr.length-1;i++)
    {
        if(arr[i]==0)
        {
            count++;
        }
    }

    return count;
}
```

Which test cases identifies an error?   1 point

☐ {10, 10, 20, 0}

☐ {0,1,2,3}

☐ {0,1,0,1}

☐ {0,0,0,0}

Which test case does not execute the fault?   1 point

◯ {1,0,2,3}

◯ {5,6,7,8}

◯ {0,1,0,1}

◯ {0,0,0,0}

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Questions

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Which of the following is the lowest level of testing according to the V-Model

1 point

○ System testing

⦿ Unit testing

○ Integration testing

○ Module testing

Clear selection

The process of finding a fault given a failure is known as _____.   1 point

○ **Testing**

○ Coding

○ Debugging

○ Triggering

Clear selection

Which of the following is not belong to the activity of a Test Engineer?   1 point

○ Designing test inputs

○ Producing test values

○ Analyzing results

○ **Sets test policies and processes**

Clear selection

Based on test process maturity, which of the following is the Level-1 testing goal? 1 point

◉ The purpose of testing is to show correctness.

○ The purpose of testing is to show that the software doesn't work.

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Clear selection

The process of evaluating software at the end of software development to ensure compliance with intended usage is called _____. 1 point

○ Verification

◉ Validation

○ Authorization

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Clear selection

Derive tests from external descriptions of the software, including specifications, requirements, and design is known as _____ testing.

1 point

○ White Box

● Black Box

○ Model-based

○ Regression

Clear selection

Specific things that must be satisfied or covered during testing is called _____.

1 point

● Test Requirements

○ Test Criterion

○ Test Harness

○ None of the above

Clear selection

How easy it is to provide a program with the needed inputs, in terms of values, operations, and behaviors is called _____.

1 point

- ⦿ Controllability
- ◯ Observability
- ◯ Abstraction
- ◯ Automation

Clear selection

The process of repeating the same test cases again and again, eventually, the same test cases will no longer find new bugs is called _____.

1 point

- ◯ Absence of Error-Fallacy
- ⦿ Pesticide Paradox
- ◯ Defect Clustering
- ◯ Early Testing

Clear selection

Which of the following is not a responsibility of a Test Engineer? 1 point

○ Designing test inputs

○ Producing test values

◉ Sets test policies and processes

○ Running test scripts

Clear selection

In the traditional Software Testing "V Model" which of the following testing 1 point
is mapped with the "Detailed Design" phase?

○ Unit Testing

○ Acceptance Testing

◉ Module Testing

○ System Testing

Clear selection

Testing how modules interact with each other is known as _____.   1 point

○ Module testing

◉ None of the options

○ Unit testing

○ Integration testing

○ System testing

Clear selection

Testing how modules interact with each other is known as _____.   1 point

○ System testing

○ Unit testing

◉ Integration testing

○ Module testing

Clear selection

Which of the followings are example of functional testing?   1 point

☐ Performance Testing

☐ Load Testing

☑ Regression Testing

☑ Acceptance Testing

☑ Integration Testing

☐ Volume Testing

☐ Recovery Testing

☐ Compliance Testing

Inter-class testing is _____.   1 point

○ Test an entire class as sequences of calls.

○ Test pairs of methods in the same class.

○ Test each method individually.

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In the context of software testing the acronym MDTD stand for?

1 point

○ Model Development Test Design

○ Model Driven Test Design

○ Model Development Test Development

○ Model Driven Test Development

Embedding test values into executable scripts is done in which MDTD activities?

1 point

○ Test Evaluation

○ Test Execution

○ Test Design

○ Test Automation

"The purpose of testing is not to prove anything specific, but to reduce the risk of the software" is _____ testing goal.

1 point

- ○ Level-1
- ○ Level-2
- ○ Level-3
- ○ Level-4

The objective _____ is to check the robustness of the application

1 point

- ○ Load Testing
- ○ Gorilla Testing
- ○ Stress Testing
- ○ Regression
- ○ None of the options

Testing the overall functionality of the system is known as _____ testing. **1 point**

○ Acceptance

○ System

○ Integration

○ Module

The objective of Happy Path Testing is _____. **1 point**

○ to test an application successfully on a positive flow

○ to check how much load or maximum workload a system can handle without any performance degradation

○ to check the robustness of the application

○ to check if an application or system gets crashed by providing random input values/data

The aim of _____ is to determine whether the software or application is accessible for disabled people or not.   1 point

○ Regression Testing

○ Alpha Testing

○ Compatibility Testing

○ Accessibility Testing

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Quiz-2-Spring-2021

Questions

There are 25 MCQ questions. Each of them have point value 1.

Which of the following paths is prime path for the following graph?
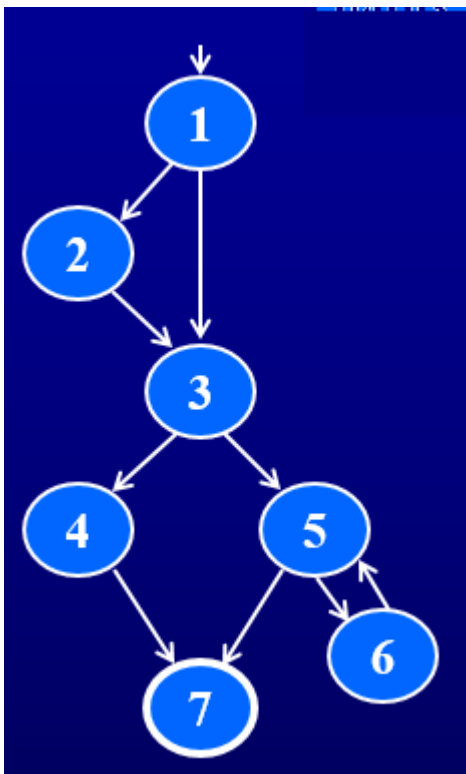
○ p=[1,3,5]

○ p=[1,2,3]

◉ p=[1,2,3,4,7]

○ p=[3,5,6,5,7]

Clear selection

For the following predicate, if we apply CACC how many pairs will be selected?

	a	b	c	$a \wedge (b \vee c)$
1	T	T	T	T
2	T	T	F	T
3	T	F	T	T
4	T	F	F	F
5	F	T	T	F
6	F	T	F	F
7	F	F	T	F
8	F	F	F	F

○ 6

○ 3

○ 12

◉ 9

Clear selection

Let P1={1,2,3,5,6} and P2={1,2,3,4,3,5,6} for the following graph. P2 is called touring with a _____.
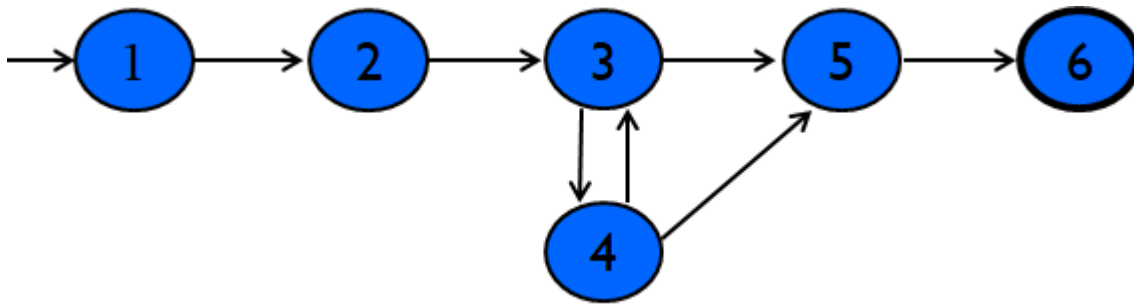
○ detours

◉ sidetrips

Clear selection

Consider the function: public boolean findElement (List list, Object element). Now for IDM, which of the following characteristics belong to the interface based approach?

○ element occurs last in list

○ number of occurrences of element in list (0, 1, >1)

● list is null

○ element occurs first in list

For which of the followings the output of the expression, p = a ⊕ b will be true?

☑ a=0, b=0

☐ a=1, b=1

● a=0, b=1

● a=1, b=0

How many test paths are present in the following graph?
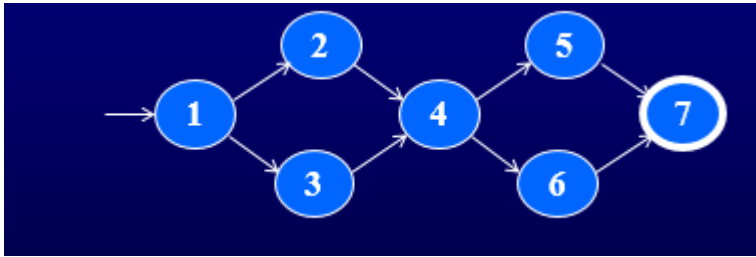
○ 5

◉ 4

○ 6

○ 9

Clear selection

Which of the following is not part of the Input Domain?

○ Parameters to a method

◉ Counter variable of a loop.

○ Data read from a file

○ User Level inputs

Clear selection

If a variable x appears as an input, then it is considered as _____ of x.
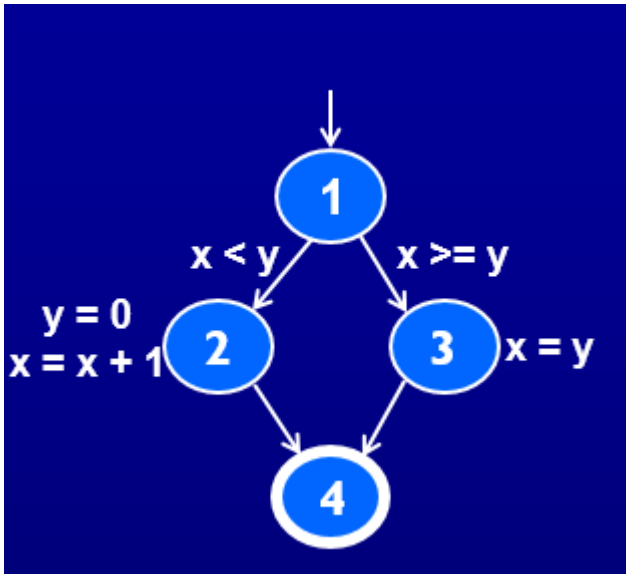
○ use

◉ def

Clear selection

Suppose, while doing ISP you have identified 3 characteristics and partitioned each of them into {3,4,3} blocks. Now for Pair-Wise Choice Coverage (PWC) there will be at least _____ test cases.

○ 24

○ 4

○ 9

○ 36

◉ 12

Clear selection

The following graph can be constructed from which of the following code segment.


```
if (x < y)
{
    y = 0;
    x = x + 1;
}
else if(x>y)
{
    x = y;
}
else
{
    y = x;
}
```

○ type-3

```
if (x < y)
{
    y = 0;
    x = x + 1;
}
```

○ type-2

```
if (x < y)
{
    y = 0;
    x = x + 1;
}
else if(x>y)
{
    x = y;
}
```

○ type-4

```
if (x < y)
{
    y = 0;
    x = x + 1;
}
else
{
    x = y;
}
```

◉ type-1

Clear selection

A procedure that decides whether a given set of test values satisfies a criterion is called _____.

○ Generator

◉ Recognizer

🔴 Test cases

○ Test Ratios

Clear selection

If a variable x is a formal parameter of a method, then it is considered as _____ of x.

○ use

◉ def

Clear selection

Which of the following is test path for the following graph?
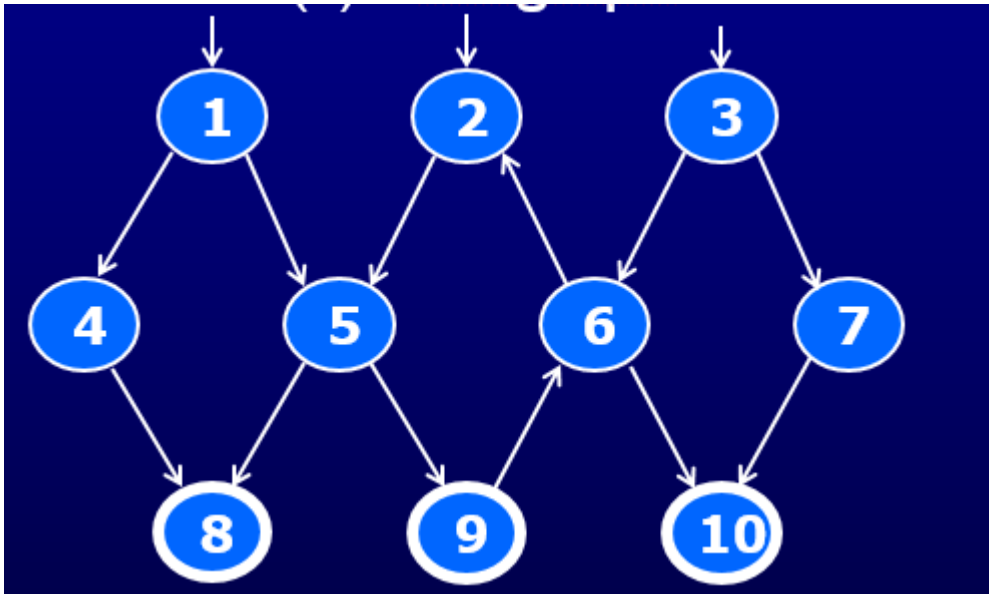
◉ p=[3,6,2,5,9]

○ p=[3,6,2]

○ p=[2,5,9,6,2]

○ p=[9,6,2]

Clear selection

A single node is a path of length _____

○ None of the options

○ 1

◉ 0

○ 2

Clear selection

Suppose, while doing ISP you have identified 3 characteristics and partitioned them into {3,4,6} blocks. Now for Each Choice Coverage(ECC) there will be at least _____ test cases.

○ 15

○ 3

⦿ 6

○ 125

○ 4

○ 30

Clear selection

Which of the following options is false for the following graph?
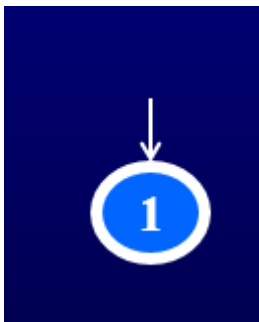
○ N={1}

○ Nf = { 1 }

⦿ E={1,1}

○ N0 = { 1 }

Clear selection

How many test paths are present in the following graph?
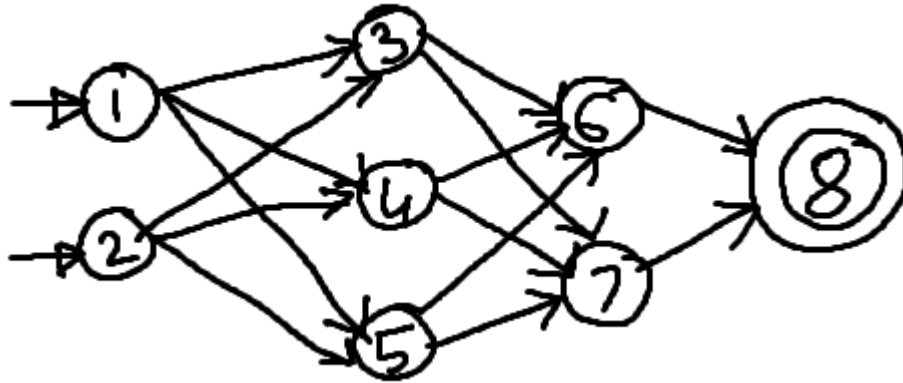
- ○ 32
- ○ 24
- ○ 6
- ○ 8
- ◉ 12
- ○ 28

Clear selection

How many clauses are present in the following Predicate, P=((f <= g) ∧ (X > 0)) ∨ (M ∧ (e < d + c))?
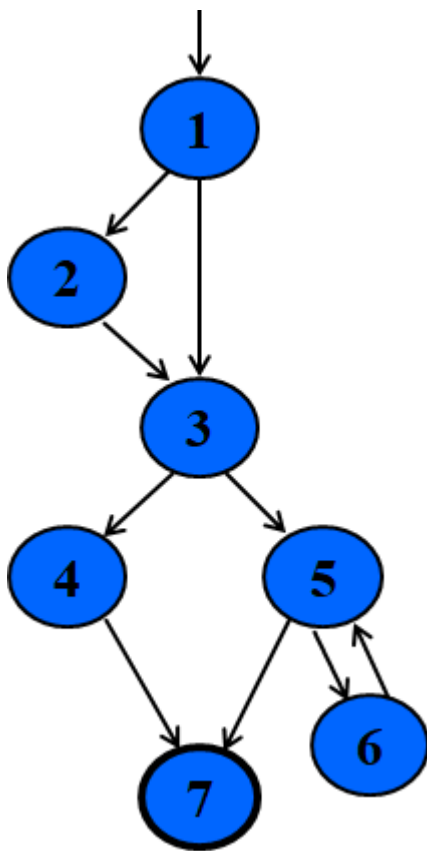
- ○ 8
- 🔴 4
- ○ 2
- ○ 3
- ◉ 5
- ○ 1

Clear selection

In PMSCS-670, we usually model a software in _____ ways.

○ 5

○ 3

○ 4

◉ 2

Clear selection

Let, TR = { [1,2,3], [1,3,4], [1,3,5], [2,3,4], [2,3,5], [3,4,7], [3,5,6], [3,5,7], [5,6,5], [6,5,6], [6,5,7] } for the following graph. TR is equivalent to the which of the followings coverage strategy?
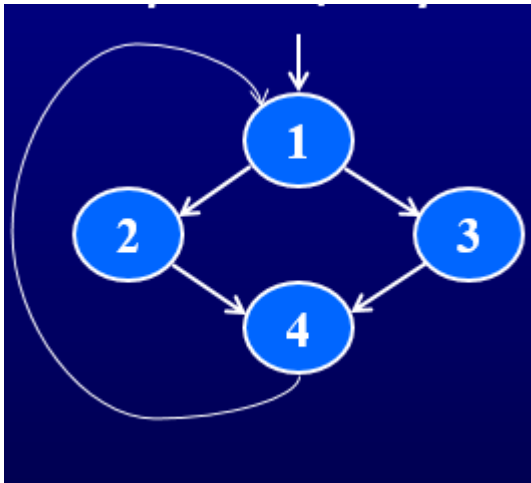

⦿ Edge Pair Coverage

◯ Complete Path Coverage

◯ Node Coverage

◯ Edge Coverage

Clear selection

Which of the following paths is not a simple path for the following graph?

○ p=[3,4,1,2]

○ p=[2,4,1,2]

◉ p=[2,4,1,3,4]

○ p=[3,4,1]

Clear selection

Does PPC Subsume EPC?

◉ No

○ Yes

Clear selection

ISP can be applied to _____.

- ☐ Acceptance Testing
- ☑ Unit Testing
- ☑ System Testing
- ☐ Load Testing
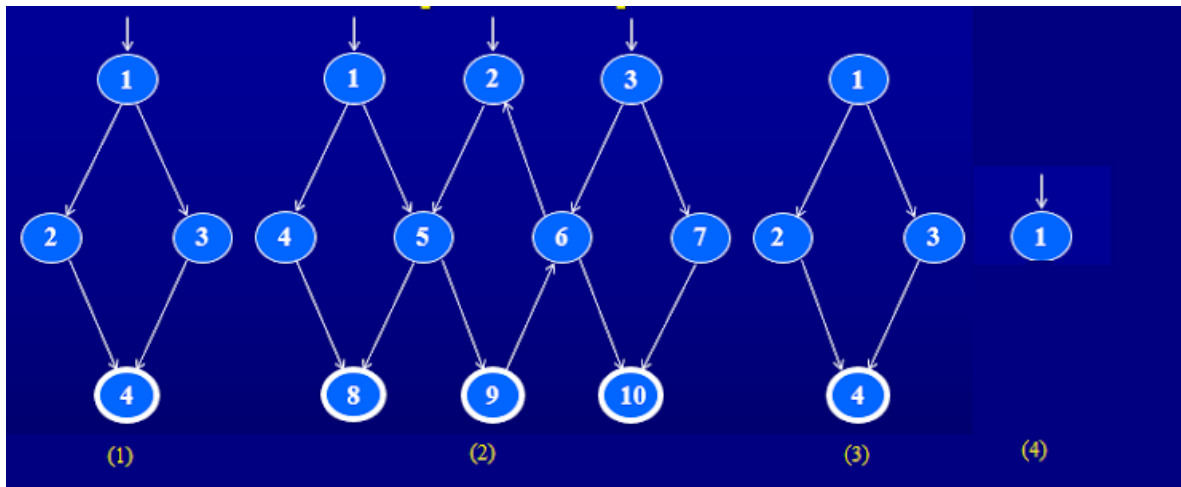- ☐ Performance Testng
- ☑ Integration Testing

Let P = A ∧ B, if A is active clause then what should be the value of B?

- ○ True
- ○ Any of the options
- ⦿ False

Clear selection

Which of the followings is not a valid graph?

- ◉ (3)
- ○ (2)
- ○ (4)
- ○ (1)

Clear selection

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