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Question No : 41 of 52 Marks: 2 (Budgeted Time 4 Min)

Which diagrams are used to present dynamic behavior of the system?

Answer ( Please click here to Add Answer )

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Question No : 42 of 52 Marks: 2 (Budgeted Time 4 Min)

Explain how can the size of the function in a program affect program maintainability?

Answer ( Please click here to Add Answer )

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Question No : 43 of 52

Marks: 2 (Budgeted Time 4 Min)

Suppose that you write a C program in which you declare a pointer to dynamically allocate memory to store the ages of 10 students. But, you forget to delete the pointer. In doing so, what type of bug will occur in the program?

Answer ( Please [click here](#) to Add Answer )

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Question No : 44 of 52 Marks: 2 (Budgeted Time 4 Min)

Suppose that software testing phase has been completed and all the defects have been discovered. What is the next step after completion of test phase?

Answer ( [Please click here to Add Answer](#) )

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44 i ⏪ ⏴ ⏵ ⏩

Question No : 45 of 52 Marks: 3 (Budgeted Time 6 Min)

Bit fields do suffer from lack of portability between platforms. Why ?

Answer ( Please click here to Add Answer )

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Question No : 46 of 52

Marks: 3 (Budgeted Time 6 Min)

Consider the following scenario:

“A hard disk drive (e.g. C-drive, D-Drive etc) contains folders which contain files. Whenever user right clicks on the folder or file and presses delete button the file is deleted and is sent to recycle bin, from where it can be deleted permanently”

Using Peter Coad methodology, identify at least two container objects.

Answer ( [Please click here to Add Answer](#) )

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Question No : 47 of 52 Marks: 3 (Budgeted Time 6 Min)

Name at least three fault classes which must be specified while preparing an inspection checklist.

Answer ( Please click here to Add Answer )

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Question No : 48 of 52 Marks: 3 (Budgeted Time 6 Min)

How does profiling works?

Answer ( Please click here to Add Answer )

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Question No : 49 of 52

Marks: 5 (Budgeted Time 10 Min)

Rewrite the following code by following General naming conventions for C++

- 1) int fileprefix;
- 2) const int max\_ iterations;
- 3) int getmaxiterations() { ... }
- 4) template<class t>

Answer ( [Please click here to Add Answer](#) )

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Question No : 50 of 52 Marks: 5 (Budgeted Time 10 Min)

Software Design Phase is a combination of number of activities. List those activities.

Answer ( Please click here to Add Answer )

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Question No : 51 of 52 Marks: 5 (Budgeted Time 10 Min)

Compute the cyclomatic complexity of the code below:

- 1. if (a > 10)
- 2.     c++;
- 3. else

Answer ( Please click here to Add Answer )

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Question No : 52 of 52

Marks: 5 (Budgeted Time 10 Min)

How many test cases for the given scenario are generated to achieve 100% Statement coverage? Also draw the Flow graph for the scenario.

```
if (n%2==0)
    printf("even number");
else
    printf("Odd Number");
```

Answer ( [Please click here to Add Answer](#) )

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Question No : 52 of 52

Marks: 5 (Budgeted Time 10 Min)

```
if (n%2==0)
    printf("even number");
else
    printf("Odd Number");

printf("End of program");
```

Answer ( [Please click here to Add Answer](#) )

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**Question No : 41 of 52** **Marks: 2 (Budgeted Time 4 Min)**

Considers the following values and calculate Cyclomatic Complexity:

- Number of edges = 8
- Number of nodes = 6

**Answer ( Please click here to Add Answer )**

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Question No : 42 of 52 Marks: 2 (Budgeted Time 4 Min)

Do you agree that a side effect of a function can make things difficult during maintenance or debugging activities?

Answer ( Please click here to Add Answer )

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**Question No : 43 of 52** **Marks: 2 (Budgeted Time 4 Min)**

As a requirement engineer, you are modeling business requirements according to the function point analysis. Which conditions are mandatory for a function to be categorized as EO?

**Answer ( Please click here to Add Answer )**

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Question No : 44 of 52 Marks: 2 (Budgeted Time 4 Min)

In which two ways the shift Operator (>>) can be used in C/C++?

Answer ( Please click here to Add Answer )

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**Question No : 45 of 52** **Marks: 3 (Budgeted Time 6 Min)**

Can a tester write test cases without having an in-depth knowledge about the system and requirements from users? Give solid comments.

**Answer ( Please click here to Add Answer )**

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**Question No : 46 of 52** **Marks: 3 (Budgeted Time 6 Min)**

What is the general style guideline for naming generic variables in a program? Give an example.

Answer ( [Please click here to Add Answer](#) )

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**Question No : 47 of 52** **Marks: 3 (Budgeted Time 6 Min)**

Write one advantage and one disadvantage of software inspection.

**Answer ( Please click here to Add Answer )**

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Question No : 48 of 52 Marks: 3 (Budgeted Time 6 Min)

How user requirements are different from functional requirements?

Answer ( Please click here to Add Answer )

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**Question No : 49 of 52** **Marks: 5 (Budgeted Time 10 Min)**

In Intel architecture, the lowest byte is the most significant byte while in Motorola architecture the highest byte of a word is the most significant one. Discuss how the above mentioned factor affects portability of program.

**Answer ( Please click here to Add Answer )**

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Question No : 50 of 52

Marks: 5 (Budgeted Time 10 Min)

Which of the following is/are example of cryptic code?

1. `x *= a;`
2. `subkey = subkey >> (bitoff - (bitoff >> 3) << 3);`
3. `a = a >> 2;`

Answer ( Please [click here](#) to Add Answer )

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Question No : 51 of 52 Marks: 5 (Budgeted Time 10 Min)

Keeping the defect removal efficiency in mind, draw a comparison between testing and inspection phases of software development lifecycle.

Answer ( [Please click here to Add Answer](#) )

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**Question No : 52 of 52** **Marks: 5 (Budgeted Time 10 Min)**

As a requirement engineer you should build a good communication relationship with the stakeholders of the company for which you are going to build software. What efforts will you put to establish this relationship?

**Answer ( Please click here to Add Answer )**

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