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(Final Term Past Paper)

MADE AND SOLVED BY TEAM HADI

WARNING: Team HADI is not responsible for any mistake or wrong answer. All students reading and using this document may check and confirm the answers at their own.



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Best of luck!



Question No : 1 of 52

Marks: 1 (Budgeted Time 1 Min)

If an error related to requirements is identified in testing phase, so this error will be considered as an error in _____ phase.

Answer (Please select your correct option)

☐ Design

☐ Code

☒ Requirement

☐ Testing

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Question No : 2 of 52

Marks: 1 (Budgeted Time 1 Min)

Defect Removal Efficiency can be increased by

Answer (Please select your correct option)

☐ By increasing the team member in a team

☒ Identifying the defect in early stages of development so that it may not be amplified

☐ Identifying the defect in the later stages of project

☐ By performing the testing activity only

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Question No : 3 of 52

Marks: 1 (Budgeted Time 1 Min)

While developing the software if the bug is caught then it is termed as

Answer (Please select your correct option)

☒ Error

☐ Defect

☐ Fault

☐ Mistake

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Question No : 4 of 52

Marks: 1 (Budgeted Time 1 Min)

When a software is delivered to a client and then client reports the bug in it then that bug is termed as

Answer (Please select your correct option)

☐ Error

☒ Defect

☐ Mistake

☐ Fault

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Question No : 5 of 52

Marks: 1 (Budgeted Time 1 Min)

MTTF is the abbreviation of

Answer (Please select your correct option)

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☐ Moderate time to failure

☐ Mean time to forward

☒ Mean time to failure

☐ Median time to failure

☐ Moderate time to failure

☐ Median time to failure

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Question No : 6 of 52

Marks: 1 (Budgeted Time 1 Min)

Software Availability can be calculated by the following equation:

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Answer (Please select your correct option)

☐ Availability = $(MTTR/MTTF) \times 100$

☐ Availability = $(MTBF/MTTR) \times 100$

☒ Availability = $(MTTF/MTBF) \times 100$

☐ Availability = $(MTBF/MTTF) \times 100$

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Question No : 7 of 52

Marks: 1 (Budgeted Time 1 Min)

The projects are classified into following categories except

Answer (Please select your correct option)

☐ Concept development projects

☐ New application development

☐ Reengineering projects

☒ Marketing Development Projects

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Question No : 8 of 52

Marks: 1 (Budgeted Time 1 Min)

Any delay in _____ path makes the whole project delayed.

Answer (Please select your correct option)

☒ Critical

☐ Physical

☐ Logical

☐ Neural

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The ----- system provides a common value scale for every software task, regardless of the type of work being performed.

Answer (Please select your correct option)

☐ SCM

☐ CM

☐ All of the given

☒ Earned value

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Question No : 10 of 52

Marks: 1 (Budgeted Time 1 Min)

Review is a type of _____ that helps preventing the bugs to move in the next stage of software development

Answer (Please select your correct option)

☐ Bug seeding tool

☒ Filter

☐ Alarm

☐ None of the given

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Question No : 11 of 52

Marks: 1 (Budgeted Time 1 Min)

Quality has a direct and indirect cost in the form of cost of:

Answer (Please select your correct option)

☒ Prevention, appraisal, and failure

☐ People, process, and product

☐ Customers, developers, and maintenance

☐ All of the given options

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Question No : 12 of 52

Marks: 1 (Budgeted Time 1 Min)

A _____ is a unique user recognizable, non-repeated field.

Answer (Please select your correct option)

☐ Record Element Type

☒ Data Element Type

☐ External Input

☐ External Query

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Question No : 13 of 52

Marks: 1 (Budgeted Time 1 Min)

In measuring Software Process Quality by using control charts, if the gap between the defects reported and defects fixed is increasing, then it means:

Answer (Please select your correct option)

☒ The product is in unstable condition.

☐ The product is in stable condition.

☐ The product is ready for shipment.

☐ None of the given.

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Question No : 14 of 52

Marks: 1 (Budgeted Time 1 Min)

Risk Analysis and management involves addressing the following concerns **except**:

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Answer (Please select your correct option)

☐ What change might cause the risk to strike ?

☐ What thing may go wrong in future ?

☒ What can happen if the web interface of the company's website will change ?

☐ What is the nature of software domain ?

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Question No : 15 of 52

Marks: 1 (Budgeted Time 1 Min)

Two tools for computing critical path and project completion times from activity networks are

Answer (Please select your correct option)

☒ CPM and PERT

☐ DRE and SQA

☐ FP and LOC

☐ ASD and BSD

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Question No : 16 of 52

Marks: 1 (Budgeted Time 1 Min)

We can include following items during configuration item identification:

Answer (Please select your correct option)

☒ User Manuals and Documentations

☐ Source Code

☐ Software Requirement Specifications

☐ All of the given options

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Question No : 17 of 52

Marks: 1 (Budgeted Time 1 Min)

Although there is no industry standard for Release Numbering, typically, a _____ field compound number is used

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Answer (Please select your correct option)

☐ 1

☐ 2

☒ 3

☐ 4

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Question No : 18 of 52

Marks: 1 (Budgeted Time 1 Min)

Change Request is submitted by the _____

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Answer (Please select your correct option)

☐ Tester

☐ Developer

☒ Client

☐ None of the given options

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Question No : 19 of 52

Marks: 1 (Budgeted Time 1 Min)

The management of creeping requirements is important for the ease of:

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Answer (Please select your correct option)

☐ Maintenance

☐ Development

☐ Testing

☐ All of the given options

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Question No : 20 of 52

Marks: 1 (Budgeted Time 1 Min)

Requirement management consists of the phase(s)

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Answer (Please select your correct option)

☐ Requirement elicitation

☐ Requirement organization

☐ Requirement documentation

☒ All of the given options

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Question No : 21 of 52

Marks: 1 (Budgeted Time 1 Min)

While assessing a legacy system for further decision, one should decide the following about the supplier

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Answer (Please select your correct option)

☐ Is supplier still in existence?

☐ Is supplier still in business?

☐ Is supplier can provide support?

☒ All of the given options

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Marks: 1 (Budgeted Time 1 Min)

Following factors should be considered while assessing the legacy system except

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Answer (Please select your correct option)

☐ Age of hardware and software

☐ Failure rate

☐ Support requirement

☒ None of the given options

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Question No : 23 of 52

Marks: 1 (Budgeted Time 1 Min)

_____ is the process of Design recovery. At this stage the documentation of the overall functionality is created.

Answer (Please select your correct option)

☐ Database Engineering

☒ Reverse Engineering

☐ Refactoring

☐ Forward Engineering

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Marks: 1 (Budgeted Time 1 Min)

The need for business process re-engineering arrives because the

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Answer (Please select your correct option)

☒ Way to conduct business changes

☐ Income of the company increases

☐ Company want to become popular

☐ Way of programming changes with time

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Question No : 25 of 52

Marks: 1 (Budgeted Time 1 Min)

If you find the code such that one type of change requires changing one subset of method, another type of change requires changing another subset then it is a symptom of

Answer (Please select your correct option)

☒ Divergent change

☐ Duplicated code

☐ Large class

☐ Lazy class

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Question No : 26 of 52

Marks: 1 (Budgeted Time 1 Min)

With a complex class you have to move data and methods around in small pieces to avoid errors, it seems slow but it is the best way because you avoid debugging

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Answer (Please select your correct option)

☒ Quickest

☐ Problem

☐ None of the given options

☐ Slowest

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Question No : 27 of 52

Marks: 1 (Budgeted Time 1 Min)

_____ integrates system and software disciplines into single process improvement framework for introducing new disciplines as needs arise.

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Answer (Please select your correct option)

☐ SEI

☒ CMMI

☐ CMM

☐ ISO

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Marks: 1 (Budgeted Time 1 Min)

Level _____ is the highest capability level of CMMI

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Answer (Please select your correct option)

☐ 6

☐ 1

☐ 0

☒ 5

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Question No : 29 of 52

Marks: 1 (Budgeted Time 1 Min)

Level _____ is the lowest capability level of CMMI in Continuous representation

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Answer (Please select your correct option)

☐ 1

☒ 0

☐ 5

☐ 6

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Question No : 30 of 52

Marks: 1 (Budgeted Time 1 Min)

The processes at _____ of CMM focus on continually improving process performance through both incremental and innovative technological changes/improvements.

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Answer (Please select your correct option)

☒ Level 5

☐ Level 1

☐ Level 4

☐ Level 3

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Question No : 31 of 52

Marks: 1 (Budgeted Time 1 Min)

Quantitative process-improvement objectives for the organization are established, continually revised to reflect changing business objectives at CMM _____

Answer (Please select your correct option)

☐ Level 3

☐ Level 2

☒ Level 5

☐ Level 1

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Question No : 32 of 52

Marks: 1 (Budgeted Time 1 Min)

Following are the components of a Legacy system except:

Answer (Please select your correct option)

☐ Business processes

☐ System hardware

☒ Marketing

☐ Application software

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Question No : 33 of 52

Marks: 1 (Budgeted Time 1 Min)

In which stage of software development loop, we try to find the solution of the problem on technical grounds and base our actual implementation on it.

Answer (Please select your correct option)

☒ Technical Development

☐ Technical Design

☐ Implementation

☐ Testing

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Question No : 34 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following is not one of the characteristics to describe a KPA?

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Answer (Please select your correct option)

☒ Resources

☐ Goals

☐ Activities

☐ Commitments

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Question No : 35 of 52

Marks: 1 (Budgeted Time 1 Min)

Spiral Model was first proposed by:

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Answer (Please select your correct option)

☐ McCabe

☒ Barry Boehm

☐ Robert Cazeman

☐ William Smith

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Question No : 36 of 52

Marks: 1 (Budgeted Time 1 Min)

Which of the following is NOT one of the 5 steps defined by Reel to improve the chances of success?

Answer (Please select your correct option)

☐ Start on the right foot

☐ Maintain momentum

☐ Make smart decisions

☒ Optimize Product

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Question No : 37 of 52

Marks: 1 (Budgeted Time 1 Min)

Software project management primarily deals with metrics related to:

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Answer (Please select your correct option)

☐ Development process

☐ Defects

☐ Availability

☒ Productivity and quality

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Marks: 1 (Budgeted Time 1 Min)

In context of degree of rigor, TSS stands for:

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Answer (Please select your correct option)

☒ Task set selector

☐ Tasks set in schedule

☐ Time set selector

☐ Time set in schedule

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Question No : 39 of 52

Marks: 1 (Budgeted Time 1 Min)

In _____ the potential for new technology or new business idea is explored.

Answer (Please select your correct option)

☐ Concept proofing project

☐ Concept implementation project

☒ Concept development project

☐ Concept scoping project

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Marks: 1 (Budgeted Time 1 Min)

When more than one users interpret the same requirement in different ways then we can say that the requirement is:

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Answer (Please select your correct option)

☐ Unambiguous

☐ Incomplete

☐ Incorrect

☒ Ambiguous

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Question No : 41 of 52

Marks: 2 (Budgeted Time 4 Min)

In context of software configuration management (SCM), SCI stands for?

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

Software configuration Item (SCI)

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Question No : 42 of 52

Marks: 2 (Budgeted Time 4 Min)

Is it effective to assign a release number to each and every release?

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



Yes it is effective

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Question No : 43 of 52

Marks: 2 (Budgeted Time 4 Min)

In context of code refactoring, what is meant by the term "Bad smell"?

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



The philosophy is simple: *"if it stinks, change it"*.

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Question No : 44 of 52

Marks: 2 (Budgeted Time 4 Min)

List at least two factors that you will consider when selecting the software development life cycle model.

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

*Size of project
stability of project
location of project team*

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Question No : 44 of 52

Marks: 2 (Budgeted Time 4 Min)

List at least two factors that you will consider when selecting the software development life cycle model.

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

size of project
steaablty of project
location of project team

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Question No : 45 of 52

Marks: 3 (Budgeted Time 6 Min)

“Software configuration management is a design activity”. Do you agree or not? Provide at least one reason to support your answer.

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

No ,because As defined by CMM, the purpose of SCM is to establish and maintain the integrity or software products through the project' s life cycle.

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Question No : 45 of 52

Marks: 3 (Budgeted Time 6 Min)

“Software configuration management is a design activity”. Do you agree or not? Provide at least one reason to support your answer.

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



As defined by CMM, the purpose of SCM is to establish and maintain the integrity or software products through the project's life cycle.

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Question No : 46 of 52

Marks: 3 (Budgeted Time 6 Min)

Mention the situations when you think that it is appropriate to scrap a legacy system completely.

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

As defined by CMM, the purpose of SCM is to establish and maintain the integrity or software products through the project's life cycle.

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Question No : 47 of 52

Marks: 3 (Budgeted Time 6 Min)

Write down characteristics (at least Two) of the processes at CMM level-1.

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



It is characteristic of processes at this level that they are (typically) undocumented and in a state of dynamic change, tending to be driven in an *ad hoc*, uncontrolled and reactive manner by users or events. This provides a chaotic or unstable environment for the processes.

Ad-hoc:

[10:40:17 PM] GulZaib Amjed: 1- no processes

[10:40:21 PM] GulZaib Amjed: 1- no model

[10:40:35 PM] GulZaib Amjed: 3-incomplete design

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Write down characteristics (at least Two) of the processes at CMM level-1.

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

Ad-hoc:
- no processes
no model
incomplete design
[4-incomplete requirement
known as initial level

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Suppose in an application, an ILF or EIF is used in four processes, then how much we will count for that ILF or EIF? Also provide reason.

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

CORRECT ANSWER SOLVED BY HADI

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There are two types of rules:

- • Identification rules
- • Complexity and contribution rules

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Suppose in an application, an ILF or EIF is used in four processes, then how much we will count for that ILF or EIF? Also provide reason.

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



The ILF and EIF counting procedures include the following two activities:

- 1) Identify the ILFs and EIFs.
- 2) Determine the ILF or EIF complexity and their contribution to the unadjusted function point count. ILF and EIF counting rules are used for

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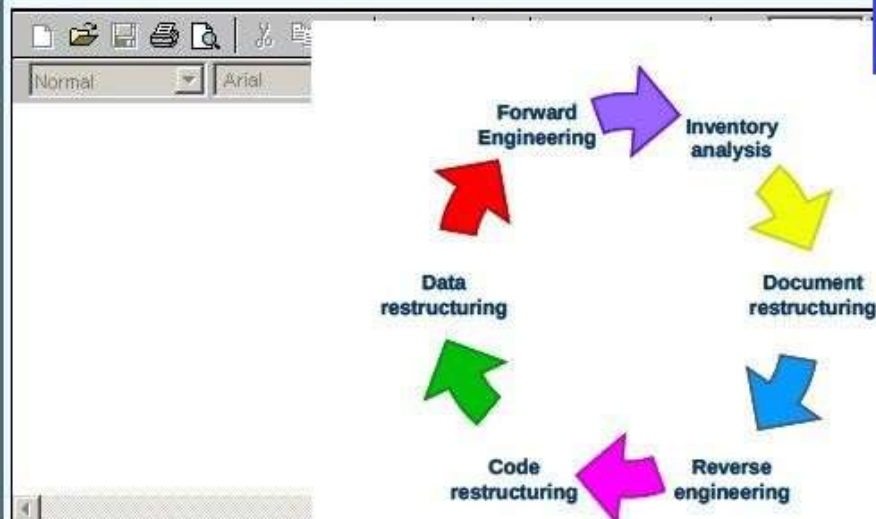
Question No : 49 of 52

Marks: 5 (Budgeted Time 10 Min)

List the steps of software reengineering process model.

Note: just list the steps, do not provide internal details.

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



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Question No : 50 of 52

Marks: 5 (Budgeted Time 10 Min)

List some (at least three) of the artifacts related to software testing, that can be treated as software configuration item (SCI).

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



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Why Long method is considered to be a bad smell in code? Explain briefly.

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

We have already seen example of duplicate code. We now look at another simple example of long method. Although, in this case, the code is not really long, it however demonstrates how longer segments of code can be broken into smaller and more manageable (may be more reusable as well) code segments.

```
int long_function(){  
....  
}  
int part_10{  
...}  
int part_20{  
...}  
int 3rd_part{  
....  
}
```

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Question No : 52 of 52

Marks: 5 (Budgeted Time 10 Min)

Normally "Cost" and "Efficiency" conflict with each other, where as "Efficiency" and "user friendly interface" conflict with each other. Now, for an air traffic control system, which requirement will be a major concern for you and why?

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



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