

VIRTUAL UNIVERSITY OF PAKISTAN

A Good Education is a Foundation For a Better Future

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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

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Answer (Please select your correct option)

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

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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:

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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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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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Question No : 22 of 52

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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Question No : 24 of 52

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 fastest 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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Question No : 28 of 52

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:

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

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Answer (Please select your correct option)

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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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Question No : 38 of 52

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.

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Answer (Please select your correct option)

Concept proofing project

Concept implementation project

Concept development project

Concept scoping project

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Question No : 40 of 52

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)

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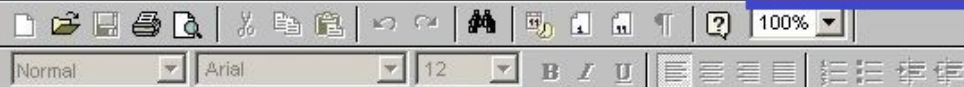
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In context of code refactoring, what is meant by the term "Bad smell".

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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.

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



Size of project
stability of project
location of project team

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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
steaably 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)



Normal Arial 12 B I U

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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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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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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Question No : 48 of 52

Marks: 3 (Budgeted Time 6 Min)

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)



There are two types of rules:

- • Identification rules
- • Complexity and contribution rules

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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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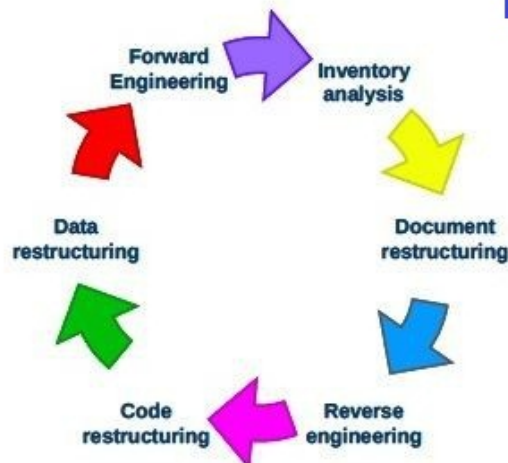
Question No : 49 of 52

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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