

VIRTUAL UNIVERSITY OF PAKISTAN

A Good Education is a Foundation For a Better Future

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TEAM HADI(VU LAHORE)

MID TERM PAST PAPER

We Deal All Kind of VU Project
(PHP, .NET, ANDROID, PYTHON)

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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 26

Marks: 1 (Budgeted Time 1 Min)

If a company is at CMM level 3 then it implicitly means that it is performing all the KPAs of

Answer (Please select your correct option)

- ☐ Level 1
- ☐ Level 2 and Level 3
- ☐ Level 3 alone
- ☐ Level 1 and level 3

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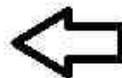
Question No : 2 of 26

Marks: 1 (Budgeted Time 1 Min)

The rapid application development model is

Answer (Please select your correct option)

- ☐ Another name for component-based development.
- ☐ A useful approach when a customer cannot define requirements clearly
- ☐ A high speed adaptation of the linear sequential model.
- ☐ All of the given



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Question No : 3 of 26

Marks: 1 (Budgeted Time 1 Min)

Which of the following formula is used to calculate the exposure for each risk ?

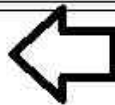
Answer (Please select your correct option)

☐ RE = Probability of the risk + Cost

☐ RE = Probability of the risk x Cost

☐ RE = Probability of the risk ^ Cost

☐ None of the given choices



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Question No : 4 of 26

Marks: 1 (Budgeted Time 1 Min)

In _____ a team is structured loosely and depends on individual initiative of the team members.

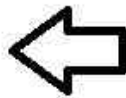
Answer (Please select your correct option)

☐ Synchronous paradigm

☐ Open paradigm

☐ Random paradigm

☐ Closed paradigm



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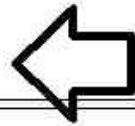
Question No : 5 of 26

Marks: 1 (Budgeted Time 1 Min)

If an experienced user has to take an extensive training of software before use and he/she still finds difficulty to use it, we can say there may be issues related to the

Answer (Please select your correct option)

☐ Usability



☐ Portability

☐ Correctness

☐ Reliability

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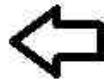
Question No : 6 of 26

Marks: 1 (Budgeted Time 1 Min)

Defect Removal Efficiency (DRE) can be measured by _____ where E is **Errors found delivery** and D is **error found after delivery** (typically within the first year of operation).

Answer (Please select your correct option)

☐ $DRE = E / (E + D)$



☐ $DRE = E - (E + D)$

☐ $DRE = E * (E + D)$

☐ None of the given

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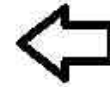
Question No : 7 of 26

Marks: 1 (Budgeted Time 1 Min)

After building the Decision Tree, following formula is used to find the expected cost for an option is :

Answer (Please select your correct option)

☐ Expected Cost= $\sum(\text{path probability})_i * (\text{estimated path cost})$



☐ Expected Cost= $\sum(\text{path probability})_i / (\text{estimated path cost})$

☐ Expected Cost= $(\text{path probability})_i + (\text{estimated path cost})$

☐ Expected Cost= $\sum(\text{path probability})_i - (\text{estimated path cost})$

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Question No : 8 of 26

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.

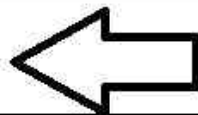
Answer (Please select your correct option)

☐ Implementation

☐ Testing

☒ Technical Development

☐ Technical Design



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Question No : 9 of 26

Marks: 1 (Budgeted Time 1 Min)

The Software Engineering Institute (SEI) has developed a framework to measure the process maturity of software organizations. This framework is known as _____

Answer (Please select your correct option)

☐ Software engineering framework

☐ Software life cycle model

☒ Capability maturity model

☐ Process engineering framework



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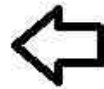
Question No : 10 of 26

Marks: 1 (Budgeted Time 1 Min)

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

Answer (Please select your correct option)

☐ Resources



☐ Goals

☐ Activities

☐ Commitments

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Question No : 11 of 26

Marks: 1 (Budgeted Time 1 Min)

According to Kraul and Steeter, "Email" is an example of _____ project coordination technique.

email are
electronic mail

Answer (Please select your correct option)

☐ Formal, impersonal

☐ Formal, interpersonal

☒ Electronic communication

☐ Interpersonal networking

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Question No : 12 of 26

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 : 13 of 26

Marks: 1 (Budgeted Time 1 Min)

An _____ is the smallest unit of activity that is meaningful to the user(s) is called

Answer (Please select your correct option)

☐ Function point

☐ Elementary process

☐ Adjustment factor

☐ Data count



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Question No : 14 of 26

Marks: 1 (Budgeted Time 1 Min)

Software project management primarily deals with metrics related to:

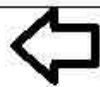
Answer (Please select your correct option)

☐ Development process

☐ Defects

☐ Availability

☐ Productivity and quality



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Question No : 15 of 26

Marks: 1 (Budgeted Time 1 Min)

A system for which the physical or intellectual skills required to learn the system are low, is called highly ____ system

Answer (Please select your correct option)

☐ Available

☐ Usable

☐ Maintainable

☐ Flexible



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Question No : 16 of 26

Marks: 1 (Budgeted Time 1 Min)

In context of function point analysis, EQ stands for:

Answer (Please select your correct option)

☐ External Quotation

☐ External Inquiry

☐ External Quality

☐ External Interface



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Question No : 17 of 26

Marks: 1 (Budgeted Time 1 Min)

Degree of uncertainty that the product will meet its requirements and be fit for its intended use is called _____

Answer (Please select your correct option)

☐ Performance risk



☐ Cost risk

☐ Support risk

☐ Schedule risk

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Question No : 18 of 26

Marks: 1 (Budgeted Time 1 Min)

A schedule developed at early stages of project planning is called:

Answer (Please select your correct option)

☐ Macroscopic



☐ Beta

☐ Visionary

☐ Concrete

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Question No : 19 of 26

Marks: 1 (Budgeted Time 1 Min)

For a project, if value of TSS is 0.9, then the degree of rigor for this project will be:

Answer (Please select your correct option)

- ☐ Strict
- ☐ Structured
- ☐ Casual
- ☐ Strict or Structured



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Question No : 20 of 26

Marks: 1 (Budgeted Time 1 Min)

In context of function point analysis, EI stands for _____

Answer (Please select your correct option)

☐ Export input

☐ Expert input

☐ External inline

☐ External input



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Question No : 21 of 26

Marks: 2 (Budgeted Time 4 Min)

Can we count a single logical file as both EIF and ILF for the same application?

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



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“Every task or group of tasks should be associated with a project milestone”. What can be the potential benefit of this?

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



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Suggest some of the reasons to "baseline the data".

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



Baseline

In order to use the data for estimation and drawing conclusions, it must be base-lined. In the baseline, data from past projects is collected, cleaned, and put in a database. Such metrics baseline is used to reap benefits at the process, project, and product level.

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Question No : 24 of 26

Marks: 3 (Budgeted Time 6 Min)

Do you think that macroscopic schedules are sufficient to schedule a project or they should be further refined up to lower level? Provide reasons for your answer.

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



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For a certain requirement specification note the following:

N_f = Functional requirements = 25

N_{nf} = Non-functional requirements = 5

N_{ui} = number of requirements for which all reviewers had identical interpretation = 10

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



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Question No : 26 of 26

Marks: 5 (Budgeted Time 10 Min)

For an inventory management system, identify some (at least three) business related risks.

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



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N_f = Functional requirements = 25

N_{nf} = Non-functional requirements = 5

N_{ui} = number of requirements for which all reviewers had identical interpretation = 10

Calculate the "Lack of Ambiguity" in the requirements given in specification.

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



Use this formula

$$n_r = n_f + n_{nf}$$

where

n_r - total number of requirements

n_f - functional requirements

n_{nf} - non-functional requirements

Now lack of ambiguity in the requirements is calculated as:

$$Q_i = n_{ui}/n_r$$

Where

n_{ui} - number of requirements for which all reviewers had identical

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Question No : 26 of 26

Marks: 5 (Budgeted Time 10 Min)

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



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- 3) GDB
- 4) GRAND QUIZZES

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