

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!



Evolutionary software process models

Choices:

☐ do not generally produce throw away systems

☒ All of the given



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☐ can easily accommodate product requirements changes

☐ are iterative in nature

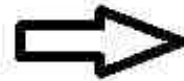
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_____ is a team organization where there is no permanent leader and task coordinators are appointed for short duration. Decisions on problems and approach are made by group consensus and communication among team is horizontal.

Choices:

☒ Democratic decentralized (DD)



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☐ Controlled decentralized (CD)

☐ Synchronous paradigm (SP)

☐ Controlled centralized (CC)

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The extent to which a program satisfies its specification and fulfills the customer's mission objectives is said to be achieving the:

Choices:

☐ Usability☐ Efficiency☐ Reliability☒ Correctness

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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

Choices:

☒ Usability

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☐ Portability☐ Correctness☐ Reliability

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MTTC is the abbreviation of :

Choices:

Measured time to change

Mean time to collaborate

Mean time to change



Measure time to cope

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Spiral Model was first proposed by:

Choices:

☐ McCabe

☒ Barry Boehm

☐ Robert Cazeman

☐ William Smith



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Barry Boehm has suggested a systematic approach (comprising of 7 questions) to project management. It is known as:

Choices:

☒ W5HH

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☐ WHH5☐ WHH7☐ W7HH

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

Choices:

☐ Function point

☒ Elementary process

☐ Adjustment factor

☐ Data count

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Software project management primarily deals with metrics related to:

Choices:

Development process

Defects

Availability

Productivity and quality



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In order to use the data for estimation and drawing conclusions, it must be ____

Choices:

☐ Filtered☒ Base-lined☐ Stabilized☐ Processed

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In context of individual control charts, if a single metrics value lies outside UNPL, it means that process is:

Choices:

☐ Within the control☒ Out of the control☐ Normalized☐ Not normalized

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In context of function point analysis, EQ stands for:

Choices:

External Quotation



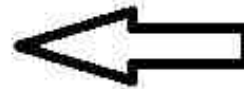
External Inquiry



External Quality



External Interface



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The purpose of the feasibility analysis is to determine

Choices:

☐ Can we use the available state-of-the-art?

☐ Can we implement the given standards?

☐ Can we meet the design constraints?

☒ Can we build software to meet the scope?



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

Choices:

☒ Unambiguous☐ Incomplete☐ Incorrect☐ Ambiguous

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Which of the following questions is not addressed when the W5HH principle is applied ?

Choices:

☒ What will be done by whom ?



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☐ Why is the system being developed ?

☐ Where are they organizationally located ?

☐ How much of each resource is required ?

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Which of the following are advantages of using LOC (lines of code) as a size oriented metric?

Choices:

☐ LOC is easily computed.

☐ LOC is a language dependent measure.

☒ LOC is a language independent measure.

☐ LOC can be computed before a design is completed.

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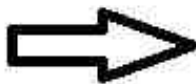
TIME LEFT

20

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Determination of theis a pre-requisite of all sorts of estimates, including, resources, time, and budget.

Choices:

☐ software Quality☐ software Risk☒ software scope☐ software Management

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The most famous of empirical models is the COCOMO (CONstructive COst Model). It also has many different versions. Which one is the simplest of these versions ?

Choices:

☐ $E = A + B * (ev)^C$

☐ $E = [LOC * B^{0.333}/P]^3 * (1/t^4)$

☐ $E = A + B - (ev)^C$

☒ $E = 3.2 (KLOC)^{1.05}$



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A good metric system is the one which is _____

Choices:

☐ Simple

☐ Cheap

☐ Adds a lot of value for the management

☒ All of the given options



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_____ is the ability to encourage technical people to produce to their best.

Choices:

☐ Planning

☐ Contingency

☒ Motivation

☐ Organization

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Software EngineeringII (CS605)

Question: **21** (Marks: 2)

Precisely discuss the following two risk management philosophies:

- a) Reactive
- b) Proactive.

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There are two basic risk management philosophies, reactive and proactive.

- Reactive – Indiana Jones school of risk management
 - Never worrying about problems until they happened, and then reacting in some heroic way – Indiana Jones style.
- Proactive
 - Begins long before technical work starts
 - Risks are identified, their probability and impact are analyzed, and they are ranked by importance.
 - Risk management plan is prepared
 - Primary objective is to avoid risk
 - Since all risks cannot be avoided, a contingency plan is prepared that will enable it to respond in a controlled and effective manner

Question: **22** (Marks: 2)

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

Ans

A logical file cannot be counted as both an ILF and EIF for the same application. If the data group satisfies both rules, count as an ILF.

Software EngineeringII (CS605)

Question: **23** (Marks: 3)

Does software quality depend only on the source code? Comment on it.

.....

Software EngineeringII (CS605)

Question: **24** (Marks: 3)

Suggest the reason(s) behind performing the feasibility assessment of a project.

Software EngineeringII (CS605)

Question: **25** (Marks: 5)

“Two software applications having same size in Function points unit may have different number of lines of code”. Do you agree or not? Provide reasons for your answer.

Answer:

Question: **26** (Marks: 5)

Suppose a project consists of three components i.e. Login-Component, Filter-Component, Transfer-Component. Calculate the overall project's system complexity from the following data:

Component	Structural complexity	Data complexity
Login Component	1	1

Question: **26** (Marks: 5)

Component	Structural complexity	Data complexity
Login Component	1	1
Filter-Component	2	1
Transfer-Component	1	1

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- 2) QUIZZES
- 3) GDB
- 4) GRAND QUIZZES

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