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)

Question No : 22 of 26 Marks: 2 (Budgeted Time 4 Min)

"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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Question No : 23 of 26 Marks: 3 (Budgeted Time 6 Min)

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

Answer (Please click here to Add Answer)

Baseline

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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.

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)

Question No : 25 of 26 Marks: 5 (Budgeted Time 10 Min)

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)

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)

Question No : 25 of 26 Marks: 5 (Budgeted Time 10 Min)

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:

$Q_l = n_{ui}/n_r$

Where

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

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)

Software EngineeringII (CS605)

Question: 21 (Marks: 2)

Precisely discuss the following two risk management philosophies:
a) Reactive
b) Proactive.

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 it 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.

Question: 23 (Marks: 3)

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

Question: 24 (Marks: 3)

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

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

Software EngineeringII (CS605)

Question: 21 (Marks: 2) Attempted Questions: 21 Total Questions: 26

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

.....

Answer:

No we can not because the for ELF the file must be out of the boundaryy of the system whiile for ILF it should be within the boundry.

Software EngineeringII (CS605)

Question: 22 (Marks: 2) Attempted Questions: 22 Total Questions: 26

What can be the implications, if the feasibility report generated is not correct?

.....

Answer:

Failure of project can occur as the worst. But alteast the constraints managing the project will not be defined which will cause management difficulties.

Software EngineeringII (CS605)

Question: 23 (Marks: 3) Attempted Questions: 22 Total Questions: 26

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

.....

Answer:

Yes, software quality depends on source code as well as GUI and the system to be deployed upon and other factors as well.
If the source code is not written in an effective way and lines of code can be decreased for the same functionality there is a chance of making the system work faster. Moreover if coding conventions are not followed it will give a tough time in maintaning debugging and updating etc.

Software EngineeringII (CS605)

Question: 26 (Marks: 5) **Attempted Questions: 23** **Total Questions: 26**

Can we ensure 100% risk free software development process, i.e. can we guarantee that during the entire software development process there will be no occurrence of any risk. Comment with reasons.

.....

Answer:

No we can not make it 100% but we can minimize is to a large extent. Risk is something that has not been happened but there is a possibility that it could occur and cause the function to fail. So for unidentified issues it is a harder to control than for the identified issues.

Software EngineeringII (CS605)

Question: 25 (Marks: 5) **Attempted Questions: 25** **Total Questions: 26**

"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:

Lines of code is not function dependent alone. It depends on the programming language, programming skills and experience of developer so i dont agree with that.

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Software EngineeringII (CS605)

Question: 24 (Marks: 3) **Attempted Questions: 26** **Total Questions: 26**

For certain software, while fixing the bugs, you found that the frequency of ripple defects was too large. What will you conclude about the quality of that software design?

.....

Answer:

The software design with is not a good design

Question No : 21 of 26 Marks: 2 (Budgeted Time 4 Min)

Why we use software project planning activity?

Answer (Please click here to Add Answer)

Handouts Page No. 80

Question No : 22 of 26 Marks: 2 (Budgeted Time 4 Min)

Discuss the concerns of risk analysis and management?

Answer (Please click here to Add Answer)

Handouts page no. 84

Question No : 23 of 26 Marks: 3 (Budgeted Time 6 Min)

How can we measure the quality of requirement specification document ?

Answer (Please click here to Add Answer)

A requirement specification
document is measured in terms of lack of ambiguity, completeness, consistency, correctness; understand ability, verifiability, achievability, concision, traceability, modifiability, precision, and reusability.

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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)

Question No : 25 of 26 Marks: 5 (Budgeted Time 10 Min)

Do you think that the use of statistical control techniques like the one given by Walter Shewart is valid (from accuracy point of view) in domain like software engineering? give your comments.

Answer (Please click here to Add Answer)

Question No : 26 of 26 Marks: 5 (Budgeted Time 10 Min)

Can we ensure 100% risk free software development process, i.e. can we guarantee that during the entire software development process there will be no occurrence of any risk. Comment with reasons.

Answer (Please click here to Add Answer)

Question No : 21 of 26 Marks: 2 (Budgeted Time 4 Min)

Give any two quality factors related with revision phase of software.

Answer (Please click here to Add Answer)

Factors related with revision

page no. 68

- Maintainability
  - Effort required to locate and fix an error in a program
- Flexibility
  - Effort required to modify an operational program
- Testability
  - Effort required

Question No : 22 of 26 Marks: 2 (Budgeted Time 4 Min)

"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)

Page No. 93

Question No : 23 of 26 Marks: 3 (Budgeted Time 6 Min)

Discuss the term "Effort Validation" in context of software project schedualing.

Answer (Please click here to Add Answer)

Effort validation

Every project has a defined number of staff members. As time allocation occurs, the project manager must ensure that no more than the allocated number of people has been scheduled at any given time.

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Question No : 24 of 26 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)

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Question No : 25 of 26 Marks: 5 (Budgeted Time 10 Min)

"The relationship between the number of people and time to develop an application is not linear". What do you understand by this statement?

Answer (Please click here to Add Answer)

The relationship between the number of people and time to develop an application is not linear. It is not as simple as a 120 man-day project can be developed by 1 person working for 120 days or 120 people working for 1 day. The communication and coordination overhead plays a very significant role.

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Question No : 26 of 26 Marks: 5 (Budgeted Time 10 Min)

Consider a human resource management application, which stores the data of the employees. For each employee, the following data is stored:

Personal information
Previous experience
Salary details
Workshops/trainings attended

Answer (Please click here to Add Answer)

Question No : 26 of 26 Marks: 5 (Budgeted Time 10 Min)

Salary details
Workshops/trainings attended

Identify the mandatory and optional record element types (RETs) from the above case study.

Answer (Please click here to Add Answer)

Software EngineeringII (CS605)

Question: 21 (Marks: 2)

Precisely discuss the following two risk management philosophies:
a) Reactive
b) Proactive.

Question: 22 (Marks: 2)

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

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

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Answer:

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