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Get All Solutions.

Write down the formula for calculating Mean time between failure (MTBF).

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

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“Normally Build and Fix model is not suitable for large and complex software”, Why?

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

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What would you understand by the term Software Reliability?

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

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Software reliability is another very important quality factor and is defined as probability of failure free operation of a computer program in a specified environment for a specified time.

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Normally what type of information is included in Configuration Status Reporting (CSR)?

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

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Configuration Status Reporting (CSR) is also known as status account and includes the following items:

- What happened?
- Who did it?
- When did it happen?

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Do you think that a comment can be a "bad smell"? Provide reason for your answer.

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

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

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

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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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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](#))

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

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

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Differentiate between staged and continuous representation of CCMI models.

Note: you can provide your answer in tabular format.

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

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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](#))

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Yes it is effective

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

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

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*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.

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

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size of project
steaably of project
location of project team

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

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

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

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

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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.

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

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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

[10:40:46 PM] GulZaib Amjed: 4-incomplete requirement

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

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

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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](#))

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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](#))

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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 each activity.**

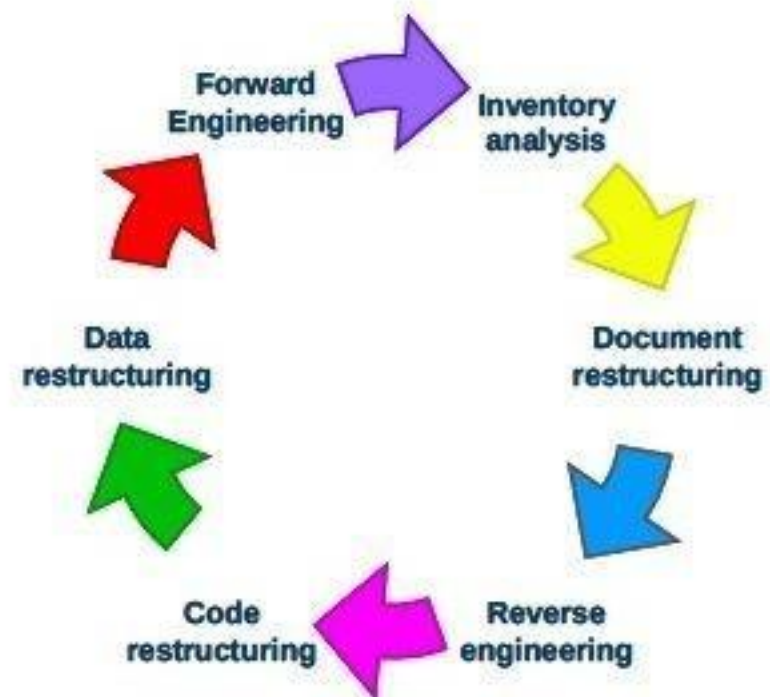
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List the steps of software reengineering process model.

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

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

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

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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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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During the Formal Technical Review (FTR) meeting, the recorder notes all the issues. They are summarized at the end and a review issue list is prepared. List down some of the points that must be included in this list.

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

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Write down some guidelines to make a review meeting successful.

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

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Normal Arial 12 B I U

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We need to tag requirements with certain attributes in order to manage them in an orderly fashion. Name at least two (2) attributes.

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

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During program restructuring, we modify source code and data. What can be the potential benefit of this modification?

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

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A student claims that "quality assurance is an umbrella activity", Do you agree or not? State with reasons.

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

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List at-least two problems that can be faced by a software development organization if they are not having proper SCM in place?

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

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List at least two factors that make it difficult to develop a traceable requirement specification (SRS).

Note: try to provide precise, to the point answer, avoid unnecessary details.

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

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For a certain application

Suppose

P_1 = current annual maintenance cost for an application = 200000

P_2 = current annual operation cost for an application = 50000

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

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P2 = current annual operation cost for an application = 50000
P3 = current annual business value of an application = 400000
L = expected life of the system = 4 years

Calculate maintenance cost of the system.

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

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For a project consider the following data:

	Probability	Cost to correct
Technical Risk	50%	1000\$
Business Risk	30%	2000\$
Support	10%	500\$

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

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Business Risk	30%	2000\$
Support	10%	500\$

Calculate the Risk Exposure for all the risks mentioned above and identify the top two (2) risks with respect to Risk Exposure.

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

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