MSCCS 09 Software Engineering

SET: 1

Section-A
(Very Short Answer Questions)

1) What is software engineering?
2) What is SDLC?
3) What is customer evaluation in spiral model?
4) PERT stands for_____
5) Measurement can be categorised into two ways: _____ and _____.
6) What is risk management?
7) What is software requirement?
8) What is unit testing?
9) What is black box testing?
10) What is quality?

Section-B
(Short Answer Questions)

1) What are the principles of software engineering?
2) What is RAD? Explain its stages.
3) Describe the levels of validation.
4) What is function point? Explain with suitable example.
5) What are the decomposition techniques? Discuss problem based estimation and process based estimation in brief.
6) What is software requirement specification (SRS) document? Outline its goals.
7) What is structural Analysis? Discuss the following tools available for structural analysis.
   a. Data Flow Diagram
   b. Decision Table
8) What are the steps followed in software design phase?

Section-C
(Long Answer Questions)

1) What is modularity? Explain the concept of cohesion and coupling in detail.
2) What is COCOMO? Describe the various modes of COCOMO estimation model giving examples of application falling in each area.
3) Explain the traditional project management approach.
4) Explain the qualities of software product in detail.

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MSCCS 09 Software Engineering

SET: 2

Section-A
(Very Short Answer Questions)

1) What is the difference between an error and defect?
2) Explain the aim of software engineering?
3) What is prototype?
4) What is Formal Methods Model?
5) What all activities are included in project management?
6) What is Software Engineering Environment (SEE)?
7) What is software project estimate?
8) What is requirement elicitation?
9) What is cyclomatic complexity?
10) What is software design?

Section-B
(Short Answer Questions)

1) What are the principles of software engineering?
2) What is white box testing? Explain structural testing in detail.
3) Describe the Critical Chain Project Management.
4) What is LOC metrics? Explain with suitable example.
5) What are the decomposition techniques? Discuss problem based estimation and process based estimation in brief.
6) What is software requirement specification (SRS) document? Outline its goals.
7) What is structural Analysis? Discuss the following tools available for structural analysis.
   a. Entity Relationship Diagram
   b. Decision Table
8) What are the steps followed in software design phase?

Section-C
(Long Answer Questions)

1) What is abstraction? Explain the concept of encapsulation and information hiding detail.
2) What is software reliability? Explain the ISO 9000 quality standards.
3) What is 'Data Modelling'? Explain the data objects, attributes, and relationships with suitable examples.
4) What is system testing? Explain the following types of system testing in detail:
   a. Performance testing
   b. Stress testing
   c. Security testing
   d. Recovery testing