
Note :- The question paper is divided into three Sections A, B and C. Write answers as per the given instructions.

Section-A

8×2=16

(Very Short Answer Type Questions)

Note :- Answer **all** questions. As per the nature of the question delimit your answer in one word, one sentence or maximum up to **30** words. Each question carries **2** marks.

1. (i) Define feasibility study in Software Engineering.
- (ii) Name any two techniques for requirement gathering.
- (iii) Differentiate between White Box and Black Box Testing.
- (iv) Define cohesion in the context of software design.
- (v) What does the spiral model emphasize?
- (vi) What is domain engineering in the context of reuse?
- (vii) What is the significance of Function Point Analysis?
- (viii) “Reusability reduces the cost and makes software development faster.” Justify this statement.

Section-B

4×8=32

(Short Answer Type Questions)

Note :- Answer **any four** questions. Each answer should not exceed **200** words. Each question carries **8** marks.

2. Compare Product - oriented and Process - oriented software approaches.
3. What is Software Requirement Specification (SRS)? Explain its characteristics.
4. What are the key components of Software Specifications Document?
5. Explain the concept of Modularity in software design.
6. Differentiate between Iterative and Incremental model.
7. What is meant by Software Quality Metrics? Give examples.
8. Describe test - driven development as a validation technique.
9. Describe the differences between quality assurance and quality control.

Section-C

2×16=32

(Long Answer Type Questions)

Note :- Answer **any two** questions. You have to delimit your each answer maximum up to **500** words. Each question carries **16** marks.

10. How does requirement analysis impact the overall software development process?
Illustrate with a case.
11. Describe various UML diagrams used during the software design phase.
12. Explain component based software engineering and its relation to software reuse.
13. What is the role of reviews, walkthroughs and inspections in verification?
