

Note: Objective part is compulsory. Attempt any three questions from subjective part.

Objective Part Compulsory

Q No 1: Write short answers of the following questions in 2-3 lines only. (16*2)

- 1) Define Stakeholder?
- 2) What are the drawbacks of prototyping Model?
- 3) Differentiate between incremental and evolutionary development?
- 4) Why Formal Methods are not widely used?
- 5) What is risk analysis?
- 6) Discuss how information systems are linked to the business objectives of an organization?
- 7) Write the steps that involve in process improvement?
- 8) Write the name of Requirements elicitation techniques?
- 9) How the Architecture Design can be represented?
- 10) List out the Different elements of Design Model?
- 11) Differentiate between ad-hoc & Acceptance testing?
- 12) What are design patterns? Explain with suitable examples?
- 13) What is the benefit of modular design?
- 14) Benefits of information hiding?
- 15) How quality is related to the standards?
- 16) How do you monitor risks to the project and mitigate them?

Subjective Part (3*16)

Q-No 2: Discuss the various stages in the System Development Life Cycle (SDLC) applied to information system development? (16 Marks).

Q No 3:

- a) Write brief note on Scope of Software Engineering in different fields. (8 marks)
- b) Write brief note on Requirement Engineering and types of Requirements. (8 marks).

Q No 4: Compare and Contrast b/w Incremental process Model & Spiral Model? (16 Marks).

Q No 5:

- a) Compare and contrast refactoring with re-engineering. (8 marks).
- b) Write brief note on Formal Methods. (8 marks).

Q No 6: Write brief note on the following (4*4 =16 marks).

- a) Transaction Processing Systems
- b) Extreme programming
- c) Component based development with examples
- d) CMM