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P.T.O

- a) Explain in detail data modeling concepts.
- b) What is requirement engineering? Explain steps in requirement engineering.
- 7. a) Explain any five design principles.

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b)

- b) Explain following architectural design :
  - i) Call and return
  - ii) Pipe and filter
- c) How data flow is mapped into software architecture.

## OR

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- a) Explain various types of cohesion and coupling in detail.
  - What is pattern based software design? Explain.
  - a) Explain unit testing procedure with the help of suitable diagram.
  - b) What are the different software testing principles suggested by Davis?
  - c) What is the difference between testing and debugging? Explain debugging process in detail.

## OR

8 10. Explain Black - Box testing in detail. a) What do you understand by SMOKE TESTING? Give the various activities encompassing 5 b) the smoke testing. 11. What is SQA? How FTR is conducted for SQA? 6 a) b) What is Reliability and Availability? What are the measures of Reliability and 4 Availability? Define Risk. Also list various types of Risk. 3 c) OR 12. Write short note on RMMM plan. 3 a) Explain Reverse Engineering in detail. b) 5 What are the layers of SCM process? Explain. c) \*\*\*\*\*\*

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