

(iii) A class that has no direct instances, but whose (iv) All of the mentioned descendants may have direct instances

PART – B: (Short Answer Questions)

(2 x 5 = 10 Marks)

 $(6 \times 5 = 30 \text{ Marks})$

Q.2. Answer ALL questions

- a. Explain two major activities undertaken during high-level design and detailed design.
- b. What is the importance of data dictionary in the context of good software design?
- c. Define Line of Code (LOC) and Function Point (FP).
- d. What is Control Flow Graph?
- e. What is the difference between an operation and a method in the context of object-oriented design technique?

PART – C: (Long Answer Questions)

Answer ANY FIVE questions

- 3. What is Black Box Testing? What are the two main approaches to design black (6) box test cases?
- 4. What is Window Management System (WMS)? What are the various types (6) Window Objects used in WMS?
- What do you understand by Software Requirement Specification? What is the goal (6) of Software Requirement Specification? Briefly discuss the format and contents of Software Requirement Specification.
- 6. What is software maintenance? Discuss the different types of software (6) maintenance.
- 7. Differentiate between structured analysis and structured design in the context of (6) function-oriented design.
- 8. What are the different types of requirements gathering activities that the analysts (6) use to gather requirements from a customer?
- 9. What is DFD? What do you mean by balancing a DFD? Explain with an example. (6)
- 10. What are the different types of views of a system captured by UML diagrams? (6)

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Marks