Code No.: CS733PE

relevant example.

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CMR ENGINEERING COLLEGE: : HYDERABAD UGC AUTONOMOUS

IV-B.TECH-I-Semester End Examinations (Regular) - November- 2023 OBJECT ORIENTED MODELING AND DESIGN (CSE)

[Time: 3 Hours] [Max. Marks: 70] **Note:** This question paper contains two parts A and B. Part A is compulsory which carries 20 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions. PART-A (20 Marks) 1. a) Explain about Object Orientation methodology. [2M] b) List the advantages of abstract class. [2M] c) Discuss the usage of Lifelines in Sequence diagram. [2M] d) Define state chart diagram and discuss about transition in state chart. [2M]e) Explain about Inception Phase in detail. [2M] f) Define System Conception. [2M] g) Define the term use case realization. [2M] h) List the steps in creating Design Class Diagram. [2M] i) What are the benefits of knowing and using design patterns? [2M] j) Show the common element found in the singleton pattern and the factory pattern and [2M] give the difference between the two patterns. PART-B (50 Marks) 2. Explain briefly three models used in Object Oriented modeling and Design. [10M]OR 3. Define Inheritance and briefly discuss about various kinds of Multiple Inheritance. [10M] 4. List various types of actors used in Use Case diagram and Draw Use Case diagram for [10M] online shopping. 5. Explain structural controls in sequence diagram and Draw a sequence diagram for [10M]printing a file. 6. Define Elaboration and explain where it is used, when it is needed and why it is [10M] needed. 7. Discuss about Domain Class Model in detail. [10M] 8. Explain the notation used for Communication diagram. [10M] 9. Discuss about Package diagram in detail and explain it with a diagram by considering [10M]

OR

Define design pattern. List any five design problems and explain how design patterns

11. Illustrate the procedure and consequences of Singleton and adaptor pattern in detail. [10M]
