

R16

Code No: 136BC

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year II Semester Examinations, July - 2023

DESIGN PATTERNS

(Computer Science and Engineering)

Time: 3 Hours

Max. Marks: 75

- Note:** i) Question paper consists of Part A, Part B.
ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.
iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

PART – A

(25 Marks)

- 1.a) Explain how to select a design pattern. [2]
- b) Write a brief note on the catalog of design patterns. [3]
- c) What is Formatting? [2]
- d) Write a short note on Document Structure. [3]
- e) Write a short note on Abstract Factory. [2]
- f) Write a brief note on Singleton. [3]
- g) Write a short note on Façade. [2]
- h) Briefly explain about Bridge. [3]
- i) Discuss briefly about State. [2]
- j) Write a short note on Chain of Responsibility. [3]

PART – B

(50 Marks)

2. What is a Design Pattern? What are elements of design pattern? Explain in detail about design patterns in Smalltalk MVC. [10]
- OR**
- 3.a) Discuss about describing Design Patterns.
 - b) Write a brief note on how to use a design pattern. [5+5]
4. Write a detailed note on supporting Multiple Look-and-Feel standards. [10]
- OR**
5. Discuss in detail about Supporting Multiple Window Systems. [10]
 6. Write a detailed note on Factory Method. [10]
- OR**
- 7.a) Write a short note on Prototype.
 - b) Elaborate discussion of Creational Patterns. [5+5]
- 8.a) Discuss in detail about Decorator.
 - b) Write a short note on Adapter. [5+5]
- OR**
- 9.a) Explain in detail about Proxy.
 - b) Explain briefly about Composite. [5+5]

