

R16

Code No: 136BC

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**B. Tech III Year II Semester Examinations, May - 2019****DESIGN PATTERNS****(Computer Science and Engineering)****Time: 3 Hours****Max. Marks: 75****Note:** This question paper contains two parts A and B.

Part A is compulsory which carries 25 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**(25 Marks)**

- 1.a) What is Design Pattern? Explain it. [2]
- b) Briefly discuss about how to organise Design Pattern catalog. [3]
- c) What is Document Formatting? Explain it. [2]
- d) Write a short note on Design problems. [3]
- e) Explain about abstract factory. [2]
- f) Discuss about creational pattern. [3]
- g) Explain about adapter design pattern. [2]
- h) Discuss about composite design pattern. [3]
- i) Explain about command design pattern. [2]
- j) What is visitor design pattern? Explain it. [3]

PART – B**(50 Marks)**

2. Explain in detail about design patterns in Smalltalk MVC. [10]
OR
3. Discuss in detail about how design patterns solve design problems. [10]
4. Explain in detail about Look-and-Feel Standards in document editors. [10]
OR
5. Discuss about how to make user interface more attractive in document editors. [10]
6. Explain in detail about Singleton design pattern. [10]
OR
7. Discuss in detail about factory method of design pattern. [10]
8. Explain in detail about bridge design pattern. [10]
OR
9. Discuss in detail about proxy design pattern. [10]
10. Explain in detail about Interpreter design pattern. [10]
OR
11. Discuss in detail about strategy design pattern. [10]