Code: CS6T2

III B.Tech - II Semester – Regular/Supplementary Examinations
AUGUST 2021

DESIGN PATTERNS
(COMPUTER SCIENCE & ENGINEERING)

Duration: 3 hours   Max. Marks: 70

PART – A
Answer *all* the questions.   All questions carry equal marks

11x 2 = 22 M

1.
a) Explain in brief the Design Pattern Elements.
b) Mention all Behavioral Design Patterns.
c) Define Recursive Composition.
d) Draw the Command Class hierarchy in Document Editor.
e) Illustrate the Participants of Builder Design Pattern.
f) Describe the Intent of Prototype Design Pattern.
g) Write the Participants of Decorator Design Pattern.
h) Define the Motivation of Composite Design Pattern.
i) Give the details of Related Patterns of Interpreter Design
    Pattern.
j) Draw the Structure of Iterator Design Pattern.
k) State the Applicability of Visitor Design Pattern.

PART – B

Answer any *THREE* questions. All questions carry equal marks.

3 x 16 = 48 M

2. a) Describe the Catalog of Design Patterns.   10 M

  b) How would you select and use Design Patterns.   6 M

3. a) Discuss how to Embellish the user interface.   8 M

  b) Illustrate in brief about Spelling Checking and
    Hyphenation.   8 M

4. a) Describe Abstract Factory Design Pattern.   8 M

  b) Discuss Prototype Design Pattern.   8 M

5. a) Illustrate Composite Design Pattern.   8 M

  b) Explain Façade Design Pattern.   8 M

6. a) Write about Chain of Responsibility Design Pattern.   8 M

  b) What is Observer Design Pattern? Explain.   8 M