

S.D.E.
M.C.A. Sem - IV : SUMMER - 2019
SUBJECT : UML & DESIGN PATTERNS

Day : Monday
Date : 13/05/2019

S-2019-5265

Time : 02.00 PM TO 05.00 PM
Max. Marks : 80

N.B.:

- 1) Attempt **ANY FIVE** questions from Section – I and attempt **ANY TWO** questions from Section – II.
 - 2) Answers to both the sections should be written in **SAME** answer books.
 - 3) Figures to the right indicate **FULL** marks.
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SECTION – I

- Q.1** Explain UML diagrams and modeling tools. [10]
- Q.2** What is class diagram? Explain with example. [10]
- Q.3** What is design pattern? Explain different types of design patterns. [10]
- Q.4** Explain decorator design pattern with example. [10]
- Q.5** Illustrate observer design pattern and its applicability. [10]
- Q.6** Describe visitor pattern with example. [10]
- Q.7** Write short notes on **ANY TWO** of the following: [10]
- a) Singleton
 - b) Sequence diagrams
 - c) Mediator pattern

SECTION – II

- Q.8** Explain the template method design pattern with example. [15]
- Q.9** Draw use cases for Admission Management System in an education institution. [15]
- Q.10** Explain activity diagram with example. [15]

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