

**M.C.A. Sem - II (Choice Based Credit System 2011 & 2012 Course) :
SUMMER - 2019**

SUBJECT : OBJECT ORIENTED ANALYSIS AND DESIGN

Day : Tuesday
Date : 30/04/2019

S-2019-2165

Time : 10.00 AM TO 01.00 PM
Max. Marks : 100

N. B. :

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

- Q. 1** List the four phases of Rational Unified Process (RUP). Briefly describe purpose of each. **(15)**
- Q. 2** What is Use Case? Describe UI Free format to be used to write use case. **(15)**
- Q. 3** Describe types of messages are sent among objects with example in sequence diagram. **(15)**
- Q. 4** List the design patterns in General Responsibility Assignment Software Patterns (GRASP). Describe any two of them. **(15)**
- Q. 5** Illustrate how activity diagram is used to model behavioural part of system. **(15)**
- Q. 6** Write short notes on **ANY THREE** of the following: **(15)**
- a) Class qualifiers
 - b) Component diagram
 - c) State Chart diagram
 - d) Polymorphism

SECTION – II

- Q. 7** Write system specification for courier management system and draw class diagram for same. **(20)**
- Q. 8** Consider ‘Bank Application System’, identify object expected to participate in following process and draw sequence diagram for same: **(20)**
- a) Open Account
 - b) Deposit Amount
 - c) Get Account Statement
- Q. 9** Identify and briefly describe Use Cases in ‘Online Library Management System’ and draw use case diagrams for it. **(20)**

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