

B.C.A. SEM-V (2014 COURSE) CBCS : WINTER - 2017
SUBJECT: OBJECT ORIENTED ANALYSIS & DESIGN

Day: **Saturday**
Date: **11/11/2017**

Time: **02.00 PM TO 05.00 PM**
Max. Marks: **100**

W-2017-1619

N.B.:

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

SECTION-I

- Q.1** Explain following with example: **(15)**
i) Association ii) Aggregation iii) Polymorphism
- Q.2** Explain Object Oriented concepts in detail. **(15)**
- Q.3** a) What is use of use–case diagrams? Differentiate between the roles of actors and users. **(08)**
b) Explain pre and post conditions in UML. **(07)**
- Q.4** a) Differentiate between specialization and generalization. **(08)**
b) Differentiate between object diagram and class diagram. **(07)**
- Q.5** a) Explain the term deployment diagram and describe its purpose. **(08)**
b) What is role of GRASP in assigning responsibility to classes and objects in OOAD? **(07)**
- Q.6** a) Write a detailed note on sequence diagram. **(08)**
b) Discuss the activity diagram and state chart diagram in detail. **(07)**
- Q.7** Write short notes on any **THREE** of the following: **(15)**
a) Rational unified process
b) Multiplicity
c) Stereotypes in UML
d) Package diagram
e) CRC

SECTION-II

- Q.8** Identify different objects and classes for “D-Mart shopping Mall” and draw Class diagram. **(20)**
- Q.9** Draw the sequence diagram for Loan Processing System in bank. **(20)**
- Q.10** Identify the use cases, classes and relationship for the Bank ATM system. Also draw use case diagram and Class diagram for the Bank ATM system. **(20)**

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