

**M.B.A. (IT) SEM- III (2012 COURSE)(CHOICE BASED CREDIT  
SYSTEM) : SUMMER - 2018**

**SUBJECT : ELECTIVE – IV: OBJECT ORIENTED ANALYSIS & DESIGN**

Day : **Wednesday**  
Date : **06/06/2018**

**S-2018-1967**

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) Answers to both the sections should be written in the **SEPARATE** answer books.
- 3) Figures to the right indicate **FULL** marks.

**SECTION – I**

- Q.1** What is behavioural modeling? Illustrate the role of activity diagram in it. [15]
- Q.2** What is RUP? List and describe phases of RUP. [15]
- Q.3** What do you know about object oriented modeling? Describe UML diagrams used in it. [15]
- Q.4** Describe the following terms: [15]
- a) Object interoperability
  - b) Encapsulation
- Q.5** Illustrate the terms ‘system usability’ and ‘measuring user satisfaction’. [15]
- Q.6** Write short notes on **ANY THREE** of the following: [15]
- a) Aggregation and composition
  - b) Component diagram
  - c) Collaboration diagram
  - d) Use case relationships

**SECTION – II**

- Q.7** Draw activity and sequence diagram for buying a product in online shopping portal. [20]
- Q.8** Identify the classes participating in library management system to issue and return a book with its attributes and behaviour. Draw class diagram showing association and relationship among them. [20]
- Q.9** A wholesaler maintains stock of products and he/she wants to ensure enough quantity of products are available in stock. Describe process of placing buy order of products to a supplier using use case description and also draw use case diagram for same. [20]

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