

BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2018 COURSE)

B.C.A. Sem-V : : SUMMER - 2022

SUBJECT : OBJECT ORIENTED ANALYSIS & DESIGN

Day : Wednesday
Date : 25-05-2022

S-18788-2022

Time : 02:00 PM-05:00 PM
Max. Marks : 60

N.B.

- 1) Q.4 from Section- I is **COMPULSORY**.
 - 2) Answer any **TWO** questions from Section – I Q.1 to Q.3.
 - 3) Answer any **TWO** questions from Section – II Q.5 to Q.7.
 - 4) Figures to the right indicate **FULL** marks.
 - 5) Answers to both the sections should be written in the **SAME** answer book.
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SECTION – I

- Q.1** a) What is object oriented modeling? Explain system development using object orientation. (06)
- b) Define the term 'actor' in use cases. Also explain its various types. (06)
- Q.2** a) What is work flow? Explain static dimension of RUP. (06)
- b) Define 'requirements'. Explain Requirement Modeling in brief. (06)
- Q.3** a) Explain the following concepts of activity diagrams using their symbols: (06)
i) Fork ii) Joins iii) Swimlanes
- b) What is a class? How to identify conceptual classes in structural modeling? What are different ways to represent classes in structural modeling? (06)
- Q.4** Write short notes on **ANY THREE**: (12)
- a) Package diagram
 - b) Relationships in UML
 - c) Collaboration diagram
 - d) Dynamic Diagrams of UML
 - e) Object modeling

SECTION – II

- Q.5** a) Draw use case diagram for ordering Pizza using mobile application. (06)
- b) Find various components of hospital system and draw component diagram. (06)
- Q.6** a) Draw activity diagram for filling examination form using online process. (06)
- b) Show variations in the states by using state charts in order management system. (06)
- Q.7** a) What is the need of interaction diagram? Explain advantages of it. (06)
- b) Explain how the object orientated style helps for reusability, extensibility and robustness. (06)

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