

CDOE
MASTER OF COMPUTER APPLICATIONS (CBCS-2019 COURSE)
M.C.A. SEM - III : WINTER :- 2021
SUBJECT: OBJECT ORIENTED ANALYSIS & DESIGN

Day : Wednesday
Date 16-02-2022

W-22224-2021

Time : 10:00 AM-01:00 PM
Max. Marks: 60

N. B.

- 1) Question **FOUR** from section-I is **COMPULSORY**
- 2) Answer any **TWO** questions from Question 1, 2, 3 in Section-I
- 3) Answer any **TWO** questions from Section-II
- 4) Answers to both the sections should be written in **SAME** answer books.
- 5) Figures to the right indicate **FULL** marks.

SECTION-I

- Q.1** Answer the following:
- a) State and describe the principles of Object Orientation. (06)
 - b) Explain role of Use case in software modeling. (06)
- Q.2** Answer the following:
- a) Explain concept of Object diagram with example. (06)
 - b) Describe how Activity diagrams are better over flow charts with proper example. (06)
- Q.3** Answer the following:
- a) What is Domain Modelling? Describe use of it in Software Modeling. (06)
 - b) What is System Sequence Diagram (SSD)? Comment on when to use it. (06)
- Q.4** Write short notes any **THREE** of the following: (12)
- a) Package diagram
 - b) Rational Unified Process (RUP)
 - c) Synchronous communication
 - d) Composition and aggregation
 - e) Use case relationships
 - f) Role of swim lanes in activity diagram
 - g) Collaboration diagram

SECTION-II

- Q.5** Answer the following:
- a) Identify Actors and Use-cases involved in the process of sending a courier from one city to another. Draw Use-case diagram for same. (06)
 - b) Write UI-free Use-case description for any two Use-cases in the above mentioned Courier Management System. (06)
- Q.6** Answer the following:
- a) Draw activity diagrams to withdraw and deposit money in Banking System. (06)
 - b) Identify classes in the 'Hospital Management System' and draw Class diagram for the system. (06)
- Q.7** Answer the following:
- a) Draw state diagram for an 'Elevator' used to provide service to move persons from one floor to another. (06)
 - b) Identify components of 'School Management System' and draw Component diagram for this systems. (06)

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