

CDOE
BACHELOR OF COMPUTER APPLICATIONS (CBCS-2019 COURSE)
B.C.A. SEM - III : WINTER :- 2021
SUBJECT: SOFTWARE ENGINEERING

Day : Wednesday
Date 16-02-2022

W-21868-2021

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 Q 1, 2, 3 in Section I.
- 3) Answer ANY TWO questions from Q 5, 6, 7 in Section II.
- 4) All question CARRY EQUAL marks.
- 5) Answers to Both the sections should be written in SAME answer book.
- 6) Draw a labeled diagram WHEREVER necessary.

SECTION - I

Q.1) Answer the following: (6 Marks X 2 = 12)

- a) What is Software Engineering? Explain the importance of Software Engineering.
- b) What is Feasibility Study? Explain Cost Benefit Analysis.

Q.2) Answer the following: (6 Marks X 2 = 12)

- a) What is Requirement Engineering? Explain any two Traditional methods of requirement elicitation technique.
- b) State and Explain the following concept:
 - i) Input design
 - ii) Output design

Q.3) Explain the following: (6 Marks X 2 = 12)

- a) Describe briefly the concept of Formal Technical Review.
- b) What is Maintenance? Describe the concept the Maintenance Activities.

Q.4) Write short notes on the following: Attempt ANY THREE (4 Marks X 3 = 12)

- a) Pseudo Code
- b) Data Dictionary
- c) Data Flow Diagram(DFD) symbols
- d) Quality Control

SECTION - II

Q.5) Answer the following: (6 Marks X 2 = 12)

- a) Your team is assigned to perform automation of banks. You are team leader. List the structure of team. Explain the responsibilities of each team member.
- b) Spiral model combines iterative nature of prototyping with systematic approach of waterfall model. Justify with your answer.

Q.6) Answer the following: (6 Marks X 2 = 12)

- a) Prepare Software Requirement Document for a "Train Ticket Reservation and Cancellation System".
- b) Draw the ERD, Context flow diagram level-0 DFD and level-1 DFD for Hotel Management system.

Q.7) Explain the following: (6 Marks X 2 = 12)

- a) Explain in brief the term Change Control.
- b) Explain the different Software Quality Assurance (SQA) activities.
