BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2018 COURSE)
B.C.A. Sem-III : WINTER : 2021
SUBJECT: SOFTWARE ENGINEERING

Day : Wednesday
Date : 12-01-2022

W-18768-2021

Time : 10:00 AM-01:00 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? Explain the different characteristics of software.
b) What is Feasibility Study? Explain the types of feasibility study.

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

a) What is Requirement? Explain the different modern types of requirements.
b) What is Coupling? Explain the different types of Coupling.

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

a) What is Black box testing? Explain any two types of Black box testing.
b) What is Maintenance? Explain the Boehm Model, and Taute's Models of Maintenance.

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

a) Principles of Software Engineering
b) Software Development Life Cycle(SDLC)
c) Validation Techniques
d) Unit Testing

SECTION - II

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

a) Explain the role of each members involved in software development.
b) Explain the working of Spiral Model in detail.

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

a) Prepare Software Requirement Document for a 'Hotel room booking and cancellation system'.
b) What is the purpose of Data Flow Diagram? What are the Notations used to draw DFD. Explain by constructing a Context flow diagram level-0 DFD and level-1 DFD for Library Management System.

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

a) State the difference between Quality control and Quality assurance.
b) Why maintenance is important in SDLC? What are the different types of maintenance?

*****