

BACHELOR OF COMPUTER APPLICATIONS (C.B.C.S.) (2014 COURSE)
B.C.A. Sem-III : WINTER : 2021
SUBJECT: SOFTWARE ENGINEERING

Day : Monday
Date : 17-01-2022

W-11037-2021

Time : 10:00 AM-01:00 PM
Max. Marks: 100

N.B.:

- 1) Attempt **ANY FOUR** questions from Section-I and **ANY TWO** questions from Section-II.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both sections should be write in **SAME** answer book.

SECTION-I

- Q.1** What are software engineering concepts? Explain principles and importance of software engineering. (15)
- Q.2** a) Explain ERD concepts with example. (08)
b) What are benefits of flow chart? (07)
- Q.3** What is Quality? How formal technical reviews are carried out in a software project? (15)
- Q.4** State the importance of software maintenance and discuss different models of software maintenance. (15)
- Q.5** Explain different requirement elicitation techniques used in SDLC. (15)
- Q.6** What is verification and validation process? Explain in detail. (15)
- Q.7** Hi-tech University has computerized its examination system which includes the procedures like: (15)
Receiving examination forms filled by the students from different institutes and validate those, sending time-tables and admit cards to different institutes which are also examination centers and entering makes after assessment of answer-sheets and printing mark sheets. Draw context level and first level data flow diagrams.

SECTION-II

- Q.8** a) Explain the need and importance of quality control. (10)
b) Explain SQA plan with the help of example. (10)
- Q.9** a) Draw use case diagram for job placement agency. (10)
(Make necessary assumptions)
b) Draw class diagram for job placement agency. (10)
(Make necessary assumptions)
- Q.10** Write short notes on (**ANY TWO**): (20)
a) Test Plan
b) Gantt chart
c) Software development life cycle

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