**DCCA401**

Reg. No. ☐☐☐☐☐☐☐☐☐

### IV Semester B.C.A. Degree Examination, September - 2023
## COMPUTER SCIENCE
### Software Engineering
### (NEP Scheme)

**Time : 2½ Hours**                                    **Maximum Marks : 60**

*Instructions to Candidates:*
   *Answer all sections.*

## SECTION - A

**I.**   Answer any **FOUR** questions. Each question carries 2 marks.        (4×2=8)

   1.   What is feasibility study?

   2.   Define extreme programming.

   3.   What is formal specification?

   4.   Define forward engineering.

   5.   What is unit testing?

   6.   What is PSP and TSP?

## SECTION - B

**II.**   Answer any **FOUR** questions. Each question carries 5 marks.        (4×5=20)

   7.   Explain spiral model of software development process.

   8.   Explain cleanroom design.

   9.   Write how testing will be carried out on object oriented software.

   10.  Explain software maintenance activity.

   11.  Explain ISO standards.

   12.  Write a short note on SPI process.

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## SECTION - C

III. Write any **FOUR** questions. Each question carries 8 marks.                    (4×8=32)

   13.   Explain the process of waterfall model.                    (8)

   14.   a.   Explain Non - functional requirements.                    (5)

          b.   Explain W5HH principle.                    (3)

   15.   Explain Black Box testing.                    (8)

   16.   a.   What is Risk? Explain.                    (5)

          b.   Write a short note on project scheduling.                    (3)

   17.   a.   Explain white box testing.                    (5)

          b.   What is RMMM plan. Explain.                    (3)

   18.   a.   Explain SCM process.                    (4)

          b.   Write a short note on Agile model.                    (4)