Reg. No.

# V Semester B.C.A. 4 Degree Examination, March/April - 2021
## SOFTWARE ENGINEERING
### (Regular/Repeaters)

Time : 3 Hours

Maximum Marks : 80

**Instructions to Candidates:**

1. Answer all Sections.
2. Draw neat diagram wherever necessary.
3. Give examples wherever needed.

## SECTION - A

1. Answer the following questions. (10×2=20)

   a) Mention any two key challenges of Software.

   b) Define requirements engineering. Name any two requirements.

   c) Define MYTH. Name any two types of myth.

   d) Define requirement validation.

   e) Mention uses of Use-Case diagram.

   f) Define mapping. State any one use of it?

   g) Define UML.

   h) Define debugging.

   i) Define RMMM.

   j) Define Software Quality.

## SECTION - B

Answer FOUR questions. (4×5=20)

2. Explain Software Engineering layers with neat diagram.

3. Explain user requirements in detail with examples.

4. Explain the steps to conduct component level design.

5. Explain Function based metrics with example.

6. Explain Six Sigma method of Software Engineering.

**P.T.O.**

## SECTION - C

Answer any FOUR questions.                                            (4×10=40)

7.    Explain BOEHM Spiral Model with neat diagram? State its advantages and disadvantages.

8.    a)   Explain Context Model of ATM System.                       **(5)**

      b)   Explain data-flow model of insulin pump.                   **(5)**

                                                                      **(5+5=10)**

9.    a)   Explain Golden rules.                                      **(5)**

      b)   Explain design evaluation.                                 **(5)**

                                                                      **(5+5=10)**

10.   Define Integration testing. Explain types of Integration testing.

11.   a)   Explain Formal Technical reviews.                          **(5)**
      b)   Explain risk identification with example.                  **(5)**

                                                                      **(5+5=10)**