B—453—2019

FACULTY OF SCIENCE

B.Sc. (Third Year) (Fifth Semester) EXAMINATION

MARCH/APRIL, 2019

(CGPA Pattern)

COMPUTER SCIENCE

Paper-XII

(Software Engineering)

(Monday, 29-4-2019)   **Time : 10.00 a.m. to 12.00 noon**

Time—2 Hours   *Maximum Marks—40*

N.B. :—   (*i*)   Attempt *All* questions.

      (*ii*)   Assume suitable data if necessary.

1.   Attempt the following (any *four*) :   8

    (*a*)   Explain the term "Computer Software".

    (*b*)   Define the terms :

       (*i*)   Portability

       (*ii*)   Efficiency.

    (*c*)   Write the format of system definition.

    (*d*)   Explain any one among the other planning activities.

    (*e*)   What is static analysis ?

    (*f*)   What is formal verification ?

2.   Attempt any *two* of the following :   8

    (*a*)   Explain project size categories.

    (*b*)   Explain the cost model of the software life cycle.

    (*c*)   Explain Jackson structured programming.

                             P.T.O.

3. Attempt any *two* of the following : 8

    (*a*) Explain in breif concurrency mechanism.

    (*b*) What is quality assurance ? How it is performed ?

    (*c*) Explain in brief intergration testing.

4. Answer the following (any *one*) : 8

    (*a*) Explain enhancing maintanability during development.

    (*b*) Explain quality and productivity factors.

5. Write short notes on (any *two*) : 8

    (*a*) Phased life cycle model

    (*b*) Documentation guidelines

    (*c*) Project structure

    (*d*) Algorithmic cost models.