This question paper contains **2** printed pages]

NY—141—2023

FACULTY OF SCIENCE AND TECHNOLOGY

M.Sc. (First Year) (Second Semester) EXAMINATION

NOVEMBER/DECEMBER, 2023

(CBCS/New Pattern)

COMPUTER SCIENCE

Paper CS-202

(Software Engineering)

(Friday, 8-12-2023)   **Time : 10.00 a.m. to 1.00 p.m.**

Time—Three Hours   *Maximum Marks—75*

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

     (*ii*)   Assume suitable data, if necessary.

1. Explain the software characteristic. Discuss the software myths.   15

Or

(*a*)   Explain the concept of 'Use Cases' with example.   8

(*b*)   Explain the Design Model.   7

2. Define Software Engineering ? Explain in detail a process framework.   15

Or

(*a*)   Discuss the strategic issues of testing.   8

(*b*)   Explain control structure testing.   7

P.T.O.

3. What is Requirement Engineering ? Explain how to initiate and elicitie requirements. 15

Or

(*a*) Describe the categories of Software. 8

(*b*) Explain the concept of Legacy Software. 7

4. Describe the strategic approach to software testing. 15

Or

(*a*) Explain in detail spiral model. 8

(*b*) Explain the concept of process potterns. 7

5. Write short notes on (any *three*) : 15

(*a*) Software Engineering—A layered technology

(*b*) Prototyping

(*c*) The design model

(*d*) Debugging process

(*e*) Black box testing.