

This question paper contains 3 printed pages]

**ND—15—2023**

**FACULTY OF SCIENCE AND TECHNOLOGY**

**B.Sc. (CS) (Third Year) (Sixth Semester) EXAMINATION**

**NOVEMBER/DECEMBER, 2023**

(CBCS/Revised Pattern)

**COMPUTER SCIENCE**

Paper BCS-604(A)

(Software Project Management)

**(Monday, 4-12-2023)**

**Time : 10.00 a.m. to 1.00 p.m.**

*Time—3 Hours*

*Maximum Marks—75*

*N.B. :— (i) All questions carry equal marks.*

*(ii) Figures to the right indicate full marks.*

1. Attempt any *five* of the following : 15

- (a) Describe the software characteristics.
- (b) What is Software Engineering ? Explain its key elements.
- (c) Explain the customer and management myth.
- (d) What is prototyping ?

P.T.O.

- (e) What is process maturity ?
- (f) Explain the concept of direct and indirect measurement.
- (g) Explain capability maturity model in brief.

2. Attempt any *three* of the following : 15

- (a) Describe the generic process model.
- (b) Explain the phases of linear sequential model.
- (c) What is component based development ?
- (d) Explain software maturity framework terminologies.
- (e) Describe the optimization of software process.

3. Attempt any *three* of the following : 15

- (a) Explain the phases of personal software process.
- (b) Describe the various levels of capability maturity model.
- (c) Describe the generic development activities in software process framework.
- (d) How to identify the task set ?
- (e) Explain the concept of milestone in software process framework.

4. Attempt any *three* of the following : 15

- (a) Explain various software application domains.

- (b) Describe the matrices for software quality.
  - (c) Explain with example how to define a process ?
  - (d) Describe the principles of software process change.
  - (e) Which process model is better among life cycle and spiral model ? Justify your view.
5. Write short notes on any *three* of the following : 15
- (a) Evolving role of software
  - (b) Size oriented metrics
  - (c) Spiral Model
  - (d) Framework Activity
  - (e) Matrices for software quality.