

This question paper contains 3 printed pages]

ND—20—2023

FACULTY OF SCIENCE AND TECHNOLOGY

B.Sc. (CS) (Fourth Semester) EXAMINATION

NOVEMBER/DECEMBER, 2023

(CBCS/Revised Pattern)

SOFTWARE ENGINEERING

(Tuesday, 5-12-2023)

Time : 2.00 p.m. to 5.00 p.m.

Time—Three Hours

Maximum Marks—75

N.B. :— (i) All questions are compulsory.

(ii) Figures to the right indicate full marks.

(iii) Assume suitable data, if required.

(iv) Use of any electronic media such as mobile phone, digital diary and electronic calculator is not permitted.

1. Attempt any *five* of the following (3 marks each) :

15

(a) Explain software crises.

(b) Explain any *three* characteristics of software.

(c) Explain software engineering.

P.T.O.

- (d) Explain TSP.
- (e) Explain Agility.
- (f) Explain planning practices.
- (g) Explain computer based system.

2. Attempt any *three* of the following (5 marks each) : 15

- (a) Explain in detail software evolution.
- (b) Explain in detail software myths.
- (c) Explain in detail incremental process model.
- (d) Explain in detail agile process models.
- (e) Explain in detail the essence of practice.

3. Attempt any *three* of the following (5 marks each) : 15

- (a) Explain in detail personal and team process model.
- (b) Explain in detail Spiral Model.
- (c) Explain in detail the evolving role of software.
- (d) Explain in detail software engineering layered technology.
- (e) Explain in detail feature driven development.

4. Attempt any *three* of the following (5 marks each) : 15

- (a) Explain in detail PSP.
- (b) Difference between PSP and TSP.

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(3)

ND—20—2023

- (c) Explain in detail Waterfall Model.
 - (d) Explain in detail software process.
 - (e) Explain in detail system engineering hierarchy.
5. Write short notes on any *three* of the following (5 marks each) : 15
- (a) Software simulation
 - (b) Product and Process
 - (c) Process Framework
 - (d) Software Horizon
 - (e) System Modeling.

ND—20—2023

3