

ED–2876

B. C. A. (Part III) EXAMINATION, 2021

Paper Sixth

SOFTWARE ENGINEERING

Time : Three Hours

Maximum Marks : 100

Minimum Pass Marks : 40

Note : Attempt any *two* parts from each question. All questions carry equal marks.

Unit—I

1. (a) What is software ? Explain life cycle of software.
(b) Explain software crises and describe prototype model.
(c) Why spiral model is most suitable than other process model ?

Unit—II

2. (a) What is software metrics ? Explain their types.
(b) Describe phase management process.
(c) What is cocomo model ? Explain it.

Unit—III

3. (a) Explain context flow diagram with any example.

- (b) What are the role and need of SRS.
- (c) Write short notes on the following :
 - (i) Data Dictionary
 - (ii) DFD for College Management system

Unit—IV

- 4. (a) What is partitioning ? How it is important in software design ?
- (b) What is modular programming ? Explain Cohesion and Coupling.
- (c) Write the role of flood programming style and draw a structure chart for any system.

Unit—V

- 5. (a) What is software testing ? Describe principle of testing.
- (b) Differentiate WBT and BBT
- (c) Explain Unit and Integration testing.