

NRT/KS/19/2231

Bachelor of Computer Application (B.C.A.) Semester–IV Examination

SOFTWARE ENGINEERING–I

Paper–I

Time : 3 Hours]

[Maximum Marks : 50

N.B. :— (1) All questions are compulsory and carry equal marks.

(2) Draw neat and labelled diagrams wherever necessary.

EITHER

1. (a) Explain Capability Maturity Model Integration (CMMI) in brief. 5
- (b) What is Software Engineering ? Explain evolving role of Software. 5

OR

- (c) Explain different changing nature of software. 5
- (d) Differentiate between personal and team process models. 5

EITHER

2. (a) Explain waterfall model with its diagram. 5
- (b) Explain any one evolutionary process model in detail. 5

OR

- (c) Explain functional and non-functional requirements with example. 5
- (d) Explain unified process in detail. 5

EITHER

3. (a) Explain data models in detail. 5
- (b) What is Feasibility Study ? Explain need of Feasibility study. 5

OR

- (c) Explain requirement validations for engineering process. 5
- (d) Explain context model in detail. 5

EITHER

4. (a) Explain architecture in Design concept. 5
- (b) Explain principles of designing output. 5

OR

- (c) What are different elements considered in designing software ? 5
- (d) Explain Data Design elements and architectural design elements in detail. 5

5. (a) What is Software Myths ? Explain. 2½
- (b) Write a note on user requirements. 2½
- (c) What is object models ? Explain. 2½
- (d) Explain the software quality guidelines and attributes in design process. 2½