

Annual Examination, 2023

B.C.A. (Part III)

B.C.A-304

Paper IV

(Software Engineering)

Time : 3 Hours]

[MAXIMUM MARKS : 80

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

UNIT-I

1. (a) What are the differences between software engineering and knowledge engineering ?
- (b) What is software analysis ? Describe the object oriented analysis.
- (c) What is system specification ? Describe software requirement specification.

UNIT-II

2. (a) What is system design ? Explain the process oriented design.

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(2)

- (b) Describe the cohesion and coupling using in system design.
- (c) Discuss about the design documentation standards.

UNIT-III

3. (a) What is case tools ? Describe relevance of case tools.
- (b) What is E-R diagram ? Draw an E-R diagram for college management system.
- (c) Write short notes on the following :
- (i) Re-engineering legacy system
 - (ii) Coding standard.

UNIT-IV

4. (a) Describe the software quality assurance.
- (b) Explain the software quality and metrics.
- (c) Describe the COCOMO algorithmic cost model.

(3)

UNIT-V

5. (a) What is software project management ?
Describe how to planning software projects.
- (b) Describe the role of software project teams.
- (c) Write short notes on the following :
- (i) Software project monitoring
 - (ii) Integrating software

