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TBC-403

B. C. A. (Fourth Semester) Mid Semester EXAMINATION, 2017

SOFTWARE ENGINEERING

Time: 1:30 Hours] [Maximum Marks: 50

Note: (i) This question paper contains two Sections.

(ii) Both Sections are compulsory.

Section—A

1.	Fill	in the blanks/True-False: (1×5=5 Marks)
	(a)	Full form of SRS is
	(b)	Use case is used for documenting requirements
- 1		Waterfall model is most appropriate when requirements are
	(d)	We use diagram to analyze a requirement from data perspective.
	•	Data flow diagram is used to analyze a function of a software

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2. Attempt any five parts:

(3×5=15 Marks)

- (a) Discuss the evolving role of software.
- (b) Define software engineering.
- (c) Briefly explain the importance of software.
- (d) Explain any three problems of software engineering.
- (e) Explain any three design principles.
- (f) Differentiate between Top down and Bottom up approach.

Section-B

- 3. Attempt any two parts of choice from (a), (b) and (c). (5×2=10 Marks)
 - (a) Discuss the different phases of software development life cycle.
 - (b) Explain the Waterfall model; also explain its advantages and disadvantages.
 - (c) Explain Spiral model with the help of a diagram.
- 4. Attempt any two parts of choice from (a), (b) and (c). (5×2=10 Marks)
 - (a) Explain SRS with its characteristics.
 - (b) Explain SRS components in details.
 - (c) Define coupling and cohesion and their use in determining software design strength.

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- 5. Attempt any two parts of choice from (a), (b) and (c). (5×2=10 Marks)
 - (a) Write short notes on the following:
 - (i) Abstraction
 - (ii) Modularization
 - (b) Explain functional versus object oriented design.
 - (c) Differentiate between validation and verification.

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