

H

Roll No.

TBC/TBI-502

B. C. A./B. SC. (IT)
(FIFTH SEMESTER)

MID SEMESTER EXAMINATION, 2019
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 : (1×5=5 Marks)

(a) Full form of SRS is _____.

(b) Use case is used for _____.

(c) Waterfall model is most appropriate when requirements are _____.

(d) We use _____ diagram to analyze a requirement from data perspective.

(e) FAST stands for _____.

2. Attempt any five parts : (3×5=15 Marks)

(a) Discuss the evolving role of software.

(2)

TBC/TBI-502

- (b) Give IEEE definition of software engineering.
- (c) Briefly explain the importance of software.
- (d) Explain any *three* problems of software engineering.
- (e) Give characteristics of good SRS.
- (f) Different application areas of software.

Section—B

- 3. Attempt any *two* parts of choice from (a), (b) and (c). (5×2=10 Marks)
 - (a) Discuss different phases of software development life cycle.
 - (b) Describe the waterfall model. Also explain its advantages and disadvantages.
 - (c) Discuss the prototype model. What is the effect of designing a prototype on the overall cost of the software project?
- 4. Attempt any *two* parts of choice from (a), (b) and (c). (5×2=10 Marks)
 - (a) Differentiate between the terms program and software by giving suitable examples. What are the most desirable attributes of a good software?

(3)

- (b) Define the term software engineering. What are the most desirable characteristics of software?
- (c) Define SRS. What are the different components of SRS?
- 5. Attempt any *two* parts of choice from (a), (b) and (c). (5×2=10 Marks)
 - (a) What are the crucial process steps of requirement engineering? Discuss with the help of diagram.
 - (b) Define coupling and cohesion and their use in determining software design strength.
 - (c) List out requirements elicitation techniques. Which one is most popular and why?

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