

Roll No.

BCA-403(N)

B. C. A (Fourth Semester) EXAMINATION, 2015

(New Course)

Paper Third

SOFTWARE ENGINEERING

Time : Three Hours]

[Maximum Marks : 75

Note : Attempt questions from all the Sections as directed.

Section—A

3 each

(Short Answer Type Questions)

Note : All questions is compulsory.

1. (A) During software development, which factor is most crucial ?
- (B) What is software process ? Why is it difficult to improve it ?
- (C) List five desirable characteristics of good SRS.
- (D) What is a requirement ? Distinguish between functional and non-functional requirements.
- (E) Define structured design. How is it related to a DFD ?
- (F) Discuss prototyping model in detail.
- (G) Distinguish between verification and validation.

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- (H) Discuss interview and questionnaire techniques.
- (I) What is Software Engineering ? Explain the problem of scale.

Section—B

12 each

(Long Answer Type Questions)

Note : Attempt any *two* questions.

- 2. What is SDLC ? Discuss all its phases. Also explain spiral model.
- 3. What do you understand by SRS ? Discuss its component and its structure.
- 4. Explain various design principle in detail. Also explain top-down and bottom-up approach.
- 5. What is Requirement engineering ? List out the steps of requirement engineering process.

Section—C

12 each

(Long Answer Type Questions)

Note : Attempt any *two* questions.

- 6. Why is testing needed in software development ? Explain the types of testing and its level.
- 7. "Software maintenance is an importance aspects of SDLC". Explain it. Also discuss its characteristics and its type.
- 8. Distinguish between cohesion and coupling. Also explain the types of each technique.
- 9. Explain software configuration management in detail. Discuss risk management also.

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