Roll No.

Total No. of Questions: 07]

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BCA (Sem.-3rd) SOFTWARE ENGINEERING SUBJECT CODE: BC - 303 (N2)

<u>Paper ID</u>: [B0211]

[Note: Please fill subject code and paper ID on OMR]

Time: 03 Hours Maximum Marks: 60

Instruction to Candidates:

- 1) Section A is Compulsory.
- 2) Attempt any Four questions from Section B.

Section - A

Q1)

 $(10 \times 2 = 20)$

- a) Name various phases of software engineering life cycle.
- b) Explain the various characteristics of software.
- c) Differentiate between verification and validation.
- d) What is GANTT chart used for?
- e) What is the need of SRS?
- f) What are key features of good user interface?
- g) What is alpha testing?
- h) What is ER-Diagram?
- i) Write about the advantages of prototyping.
- j) What is Rayleigh curve used for?

Section - B

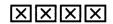
 $(4 \times 10 = 40)$

- Q2) What do you mean by software reliability? What are the metrics of the reliability?
- Q3) What do you mean by architectural and detail design? Explain in detail.
- Q4) What are the characteristics of a good test plan? What are the different objectives kept in mind while black box and white box testing?

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P.T.O.

- **Q5)** (a) How is the quality of software assured?
 - (b) What are the basic issues in any reuse program?
- **Q6)** What is software configuration management? Explain with an example.
- Q7) How is size of software estimated? Explain COCOMO model of cost estimation.



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