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**BCA (Sem. – 3<sup>rd</sup>)**  
**SOFTWARE ENGINEERING**  
**SUBJECT CODE : BC - 303**  
**Paper ID : [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 × 2 = 20)**

- a) What are characteristics of Software?
- b) List various Software Process Models.
- c) What do you mean by metric?
- d) List various objectives of S/W project planning.
- e) What do you mean by data dictionary?
- f) What are various principles of S/W design?
- g) What is the purpose of software testing?
- h) Explain term verification.
- i) What do you mean by Black Box testing?
- j) What is the purpose of DFD?

**Section - B****(4 × 10 = 40)**

- Q2)** What are various models for software development? Discuss Waterfall model.
- Q3)** What are various decomposition techniques? Explain COCOMO.
- Q4)** What is the purpose of Entity Relationship diagram in software development? Explain by taking suitable case study.
- Q5)** What are various software design methodologies? Explain procedural design methodology with suitable example.
- Q6)** What are various verification and validation techniques? Explain
- Q7)** Explain Following:
  - a) Prototyping
  - b) S/W Design.

