

ROLL No:

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Total number of pages:[1]

Total number of questions:06

BCA 4th Sem

Software Engineering

Subject Code: BSBC-401

(RP) M/18

Paper ID: 2011 onwards

Time allowed: 3 Hrs

Max Marks: 60

Important Instructions:

- All questions are compulsory
- Assume any missing data

PART A (2×10)

Q. 1. Short-Answer Questions:

All COs

- (a) What are the various characteristics of a software?
- (b) Differentiate between fault and failure.
- (c) Define waterfall model.
- (d) What is SRS.
- (e) What are fourth generation techniques?
- (f) List various objectives of software design.
- (g) Define E-R Diagram?
- (h) What do you mean by risk management?
- (i) Define change control process?
- (j) What is Reverse Engineering?

PART B (8×5)

Q. 2. Explain software development life cycle.

CO1

OR

Define Software Engineering .What are the various principles of software engineering?

CO1

Q. 3. What is Requirement Analysis and Specification? Explain in detail.

CO2

OR

Explain DFDs with example.

CO2

Q. 4. Explain Software Sizing objectives and techniques.

CO3

OR

What are the various effort estimation techniques? Explain.

CO3

Q. 5. What is Software Testing? Explain any four kinds of testing techniques.

CO4

OR

Explain different types of software metrics in detail.

CO4

Q. 6. Explain COCOMO-I and COCOMO-II Models.

CO5

OR

Write a short note on a) Verification and Validation b) Reverse Engineering and Forward Engineering

CO5