

UG/6th Sem(H)/23/(CBCS)

2023

BCA (Honours)

Paper Code : BCAH DC-13

(Software Engineering)

Full Marks : 32

Time : Two Hours

The figures in the margin indicate full marks.

*Candidates are required to give their answers
in their own words as far as practicable.*

Group - A

1. Answer any six questions : 2×6=12

(a) What are the differences between the classical waterfall model and the iterative waterfall model?

(b) Discuss the importance of software requirement specification in software development.

(c) Distinguish between software verification and validation briefly.

(d) Define a test vector and its significance in test case design.

(e) What are the different types of software maintenance?

(f) What is alpha testing?

P.T.O.

(2)

- (g) What are the criteria specified by the IEEE Standard for Statistical Software Quality Assurance (SSQA)?

Group - B

Answer any *four* questions.

5×4=20

2. Discuss the COCOMO model and its variants (Basic, Intermediate, and Complete) for software cost estimation. Explain the factors considered in each variant and how they impact the estimation process. 5

3. Explain different phases involved in Prototype Model. 5

4. Discuss the different levels of DFD (Data Flow Diagram) design and their uses in software design analysis. 5

5. What is LOC? What are the demerits of LOC metric in project cost estimation? 2+3

6. Write a short note on any *one* : 5

(a) Decision Tree

(b) Black Box Testing
