

S.No. 5194

MBECA 1:1/10/
MBECS 1:1/10

(For candidates admitted from 2010 to 2015 Batch)

B.Sc./B.C.A. DEGREE EXAMINATION, APRIL 2022.

Part III —Computer Applications/Computer Science/
Major Based Elective

SOFTWARE ENGINEERING

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20)

Answer ALL questions.

1. What are the advantages of egoless team?
2. What are the objectives of Software Engineering?
3. List out any three cost estimation techniques.
4. Define project management.
5. What are the areas of effort in Software requirements analysis?
6. What do you mean by Cohesion?
7. List out the commonly used *design notations*

8. What is an abstract machine in bottom up design?
9. What is the objective of unit testing?
10. What do you mean by reliability of software system?

PART B — ($5 \times 5 = 25$)

Answer ALL questions, choosing either (a) or (b).

11. (a) What are the development resources needed for software project?

Or

- (b) Write short notes on Project planning.

12. (a) Write note on staffing level estimation.

Or

- (b) Discuss empirical estimation models.

13. (a) Write short notes on the software requirement specification.

Or

- (b) Explain the basic specification principles for representing software requirements.

14. (a) Explain about psychological characteristics of programming language design.

Or

- (b) What is a good coding style? Explain the element in coding style,

15. (a) Explain the need of unit test.

Or

- (b) What is Software configuration management? What are the goals of Software configuration management?

PART C — ($3 \times 10 = 30$)

Answer any THREE questions.

16. Discuss in detail about the roles of software development team
17. Discuss about factors involved in estimating software maintenance costs
18. Discuss in detail about Design Heuristics for Effective Modular Design
19. Discuss in detail about graphical design notations
20. Explain in detail about System testing.