B C A DEGREE END SEMESTER EXAMINATION - OCT. 2020 : JANUARY 2021

SEMESTER 3 : MOBILE APPLICATIONS AND CLOUD TECHNOLOGY

COURSE : **19U3CRBCA8 : SOFTWARE ENGINEERING**

(Common for Regular - 2019 Admission & Supplementary 2018/ 2017/2016 Admissions)

Time : Three Hours   Max. Marks: 75

PART A
Answer All (1 mark each)

1. List any two characterisics of software as a product?
2. Define Validation?
3. What do you mean by Functional Requirements?
4. What is the main advantage of throwaway prototype?
5. What do you mean by Software Design?
6. Define common coupling?
7. What is glass box testing?
8. What are the main objectives of testing?
9. What is a line of code?
10. What is meant by risk management?

(1 x 10 = 10)

PART B
Answer any 8 (2 marks each)

11. Discuss on waterfall model?
12. What are the advantages of evolutionary prototyping?
13. Distinguish between the Open-ended and Close-ended approach?
14. Why throw-away prototype should not be considered as a final system?
15. Explain about the architectural design process?
16. Explain about design heuristics for effective modularity?
17. What are the different classes of test cases of the regression test?
18. What is the need for cyclomatic complexity?
19. What is COCOMO II Model?

(2 x 8 = 16)

PART C
Answer any 5 (5 marks each)

20. What are the fundamental activities of the software process?
21. The spiral model is one of the most effective life cycle models. Why?
22. Explore different feasibility studies to be conducted in the analysis?
23. Abstraction and refinement are complementary concepts in design. Explain?
24. Illustrate the different stages in a testing process?
25. Elaborate on the Software configuration management process?
26. What are the software maintenance cost factors?

(5 x 5 = 25)

PART D
Answer any 2 (12 marks each)

27. Explain different requirement elicitation techniques with its merits and demerits?

28. a) Explain the various design concepts considered during design?
    b) Write short notes on the user interface design process?

29. What are the various testing strategies to software testing? Discuss them briefly?

30. How CASE tools are classified. Explain about Software Cost estimation?

(12 x 2 = 24)