Reg. No ..... Name **22U522**

B. Sc. DEGREE END SEMESTER EXAMINATION : OCTOBER 2022

SEMESTER 5 : COMPUTER APPLICATIONS

COURSE : **19U5CRCAP10 : SOFTWARE ENGINEERING AND ENVIRONMENTAL STUDIES**

(For Regular - 2020 Admission and Supplementary - 2019 Admission)

Time : Three Hours Max. Marks: 75

PART A

Answer All (1 mark each)

1. What are the two types of software interfaces?
2. Define coupling.
3. What is the benefit of modular design?
4. List out the software life cycle models.
5. Define the predicate node?
6. What is the meaning of renewable resources?
7. What do you mean by functional requirements?
8. What is meant by structural analysis?
9. What is software?
10. Distinguish between process and methods.

(1 x 10 = 10)

PART B

Answer any 8 (2 marks each)

11. What are the benefits of horizontal partitioning?
12. What are the different steps involved in requirement engineering process?
13. What is the use of User Interface prototyping?
14. Distinguish between hard and soft real-time systems.
15. Why testing is important with respect to software?
16. Outline the system engineering hierarchy.
17. Write an account on the issues related to waste diposal
18. What are the commonly found errors during 'client testing'?
19. What are the drawbacks of RAD models?
20. What are the characteristics of SRS?

(2 x 8 = 16)

PART C

Answer any 5 (5 marks each)

21. What are the quality parameters considered for effective modular design?
22. Explore different feasibility studies to be conducted in the analysis.
23. Explain the preventive measures of deforestation.
24. Explain the components of real-time executives with a neat diagram.
25. Explain the software requirement specifications.
26. The spiral model is one of the most effective life cycle models. Why?
27. Explain the testing procedures for boundary conditions.

(5 x 5 = 25)

PART D

Answer any 2 (12 marks each)

28. Discuss structured analysis and data dictionary.

29. Explain with advantages and disadvantages

    1. Spiral Model
    2. V-Model
    3. Agile Model

30. Explain black box testing methods and its advantages and disadvantages?

31. Explain in detail about the design concepts and design principles.

(12 x 2 = 24)