QP CODE: 24027463

24027463

Reg No : .....

Name : .....

B.Sc DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE EXAMINATIONS, OCTOBER 2024

Third Semester

B.Sc Information Technology Model III

Core Course - IT3CRT03 - SOFTWARE ENGINEERING

2017 Admission Onwards

F7180F13

Time: 3 Hours Max. Marks : 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. What is SDLC concept?
2. What are the different categories of software divided into?
3. What is increment process model?
4. What is the relationship between Data dictionary & DFD?
5. Differentiate between unary & binary relationship in E-R diagram.
6. Why use-case diagrams are used?
7. What is cohesion?
8. What is a software component?
9. Differentiate between Verification and Validation.
10. What are software configuration items? Give examples?
11. What is Project metrics?
12. What is risk refinement?

(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Explain software engineering paradigms.

14. Explain agility principles.

15. What are the principles that guide practice?

16. Discuss Quality Function Deployment technique of Requirements Elicitation.

17. What are the different phases of software design?

18. What is conventional view of component?

19. Write short notes on non-incremental integration testing.

20. What are the elements of Software Configuration management System?

21. What types of risks are encountered as Software is built?

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. Explain the system development life cycle concept with a diagram.

23. Explain Class based Modelling.

24. Define the following terms:-
    a) Objects b)Messages c) Abstraction d)Class e) Inheritance f) Polymorphism

25. Write short notes on critical path method.

(2×15=30)