R.M.K. ENGINEERING COLLEGE
(An Autonomous Institution)
RSM Nagar, Kavaraipettai – 601 206
DEPARTMENT OF INFORMATION TECHNOLOGY
REVISION Test –May2022

Subject Code/Title: 20IT401/Software Engineering   **Date:28.05.2022**

Branch: IT

PART-A(40x2=80)

1. What is Software Engineering?/ Write the IEEE definition of software engineering

2. What are the umbrella activities of a software process?

3. List the process maturity levels in SEIs CMM.

4. What are the characteristics of the software?

5. Define Software Process..

6. List out the fundamental activities of software process

7. What are the advantages and disadvantages of size measure?

8. List deficiencies in waterfall model .

9. What are the advantages of evolutionary prototyping?

10. What are the drawbacks of RAD model?

11. Distinguish between user and system requirements.

12. Define Quality Function Development(QFD). What are it types

13. What are the functional and non-functional requirements? Give

14. examples for each category

15. Define Feasibility studies. What is the outcome of feasibility study?

16. Define petrinet with its components.

17. What is meant by Data dictionary?

18. What are the various types of traceability in software engineering?

19. Write a note on FURPS model

20. What are the characteristics of SRS?

21. What is cardinality in data modeling?

22. Define the term: Abstraction

23. In what way abstraction differs from refinement.

24. Name three levels of abstraction

25. What are the criteria for the effective modular design?

26. What is mean by user interface design?

27. Define the term Software Architecture.

28. What the advantages of modular design?

29. What are the quality parameters considered for effective modular

30. design?

31. What are types of cohesion?

32. . What are types of coupling?

33. Mention the purpose of Stub and Driver used for testing design.

34. What is a "good" test?

35. Give internal and external views of testing.

36. What is cyclomatic complexity? List out the various methods of calculating the cyclomatic complexity

37. What are the errors uncovered by black box testing?

38. What is meant by Big Bang approach?

39. Define Verification and validation testing

40. What is smoke testing?

41. Differentiate alpha and Beta Testing?

42. What are the common approaches in debugging?

43. Differentiate between metric and indicators. (CO6,K2)

44. What are the types of software maintenance?

45. What is the purpose of timeline chart?

46. .what is error tracking.

47. Will exhaustive testing guarantee that the program is 100% correct?

48. List two customers related and technology related risks.

49. How will you assess the risk impact and give the risk exposure formula?

50. What is the difference between "known risks" and "predictable risks"?

PART-B
Answer any Four Qusestions

1. What is black box testing? Explain the different types of black box testing

2. strategies with example?

3. What is unit testing? Why is it important? Explain the unit test consideration and test procedure.

4. An organic software occupies 15000 LOC. how many programmers are needed to complete?

5. Explain in detail about Project Scheduling with suitable example

6. Discuss in detail about COCOMO model for software cost estimation .Illustrate considering a suitable example.