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**B.M.S COLLEGE FOR WOMEN, AUTONOMOUS**  
**BENGALURU – 560004**  
**SEMESTER END EXAMINATION –SEPTEMBER 2023**

**B.Voc I.T. - 4<sup>th</sup> Semester**

**SOFTWARE ENGINEERING**  
**(NEP Scheme 2021-22 Onwards)**

**Course Code: BVIT4DSC10**  
**Duration: 2 ½ Hours**

**QP Code: 4034**  
**Max. Marks: 60**

*Instruction: Answer all the sections.*

**SECTION-A**

**I. Answer any TEN questions. Each question carries TWO marks. (10X2=20)**

1. Define Software Engineering.
2. Mention any two-software life cycle model.
3. What is functional requirement? Give example.
4. What is feasibility study?
5. Define error and failure.
6. Differentiate between software verification and validation?
7. What are test cases?
8. What is the need for software project planning?
9. Define reverse engineering.
10. What do you mean by risk mitigation in software engineering?
11. What is software maintenance
12. How many stages are there in process improvement?

**SECTION-B**

**II. Answer any FIVE questions. Each question carries FOUR marks. (5X4=20)**

13. Describe waterfall model with its advantages and disadvantages.
14. Discuss management spectrum in detail?
15. Explain various levels of testing.
16. Differentiate between Whitebox testing and Blackbox testing
17. Write a note on risk management?
18. Explain types of software maintenance.
19. What are the functions of software configuration management? Explain.

**SECTION-C**

**III. Answer any TWO questions. Each question carries TEN marks. (2X10=20)**

20. Explain Spiral model with a neat diagram.
21. Explain process and project in detail.
22. Write a note on cleanroom strategy
23. Explain RMMM in detail.