



Register Number:

Date: 27-11-2020

**ST. JOSEPH'S COLLEGE (AUTONOMOUS), BANGALORE-27**

**BSC -V SEMESTER**

**SEMESTER EXAMINATION: NOVEMBER 2020**

**CS5218: SOFTWARE ENGINEERING**

**Time- 2 1/2 hrs.**

**Max Marks-70**

**This paper contains two printed pages and three sections**

**PART A**

Answer all the questions (10 \* 2=20)

1. What is the prime objective of software engineering?
2. List any two Advantages of incremental model
3. Distinguish between Process and Product
4. What are the non-functional requirements of software?
5. Who is called as a Stakeholder?
6. What is coupling? List out its types.
7. Define Modularity in Software Engineering?
8. Define exception handling.
9. What is meant by software Reuse?
10. Define Thread testing.

**PART B**

Answer any Five of the following questions (5 \* 6=30)

11. Explain the steps of classical waterfall model with a neat diagram.
12. Write about Semantic model in detail.
13. illustrate in detail about Architectural design in software engineering.
14. Summarize Software development for reuse in detail.
15. Elaborate the concept of Bottom up integration testing with a neat diagram.
16. Write short notes on the following:
  - (i) Estimation by analogy (2)
  - (ii) Functional Requirements (2)
  - (iii) Organic mode of cost estimation (2)

17. Explain

- (i) Failure Classification (3)
- (ii) STLC (3)

**PART C**

Answer any Two of the following Questions (2\*10= 20)

- 18. Narrate the importance of software specification of requirements. Explain a typical SRS structure and its parts.
- 19. Why Modularization is important in Software engineering? Explain in detail about coupling and its types.
- 20. Why Mathematical based verification is required in software engineering? Explain in detail.

**CS5218\_A\_20**