ST. JOSEPH'S COLLEGE (AUTONOMOUS), BANGALORE-27
BCA - III SEMESTER
SEMESTER EXAMINATION: NOVEMBER 2020
CA3318: SOFTWARE ENGINEERING

Time- 2 1/2 hrs                                    Max Marks-70

## This Paper contains Two Printed Pages and Three Sections.

### Part A

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

1. Define software engineering. Mention any three features of software.
2. Differentiate between a job and exploration.
3. Compare and Contrast Software Product and Software process.
4. What is the concept of pair programming in extreme programming?
5. What is software requirements specification? What is the work product obtained from this stage?
6. Define software design.
7. Mention any three differences between coupling and cohesion in software engineering.
8. What is interface design in software engineering? Mention its types.
9. List the differences between code review and code Inspection.
10. Define unit testing.

### Part B

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

11. Explain the working of spiral process model with a neat diagram.

12. Compare and Contrast evolutionary and throwaway prototyping techniques in software engineering.

13. Examine the Requirements Engineering Process with a neat diagram.

14. What is code walk through? Explain.

15. Examine the different phases of Testing in software engineering.

16. Define Coupling. Explain any four types of coupling.

17. What is Quality Management? Explain the role of quality management in software engineering.

**Part C**

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

18.With a neat block diagram explain the concept of software development life cycle (SDLC)

19. What is DFD? Using various notations draw a DFD for library management system.

20. What is Cost estimation? How do we perform cost estimation using COCOMO model? Explain.