**ST. JOSEPH’S COLLEGE(AUTONOMUS), BENGALURU -27**

Registration Number:

Date & Session

**BCA – 6th SEMESTER**

**SEMESTER EXAMINATION: APRIL 2024**

**(Examination conducted in May/June 2024)**

**CA6123: SOFTWARE ENGINEERING**

**(For Current batch student only)**

**Time: 2 Hours Max Marks: 60**

**This paper contains 2 printed pages and 3 parts**

**PART-A**

**Answer all FIVE questions (2 X 5 = 10)**

1. Differentiate between Software and Software Engineering?
2. What do you mean expert judgment?
3. Define coding style.
4. Write the best practices for "coding”.
5. Briefly explain project planning activity

**PART- B**

**Answer any FIVE questions (4 X 5 = 20)**

1. Compare and contrast between waterfall and agile process models.
2. Explain about architectural design in detail.
3. Differentiate SRS document and Design document?
4. Explain different types of coding techniques used in software engineering.
5. What is the necessity of quality assurance in software development?
6. Illustrate on software reusability with an example.
7. Write short note on various stakeholders in software project management.

**PART- C**

**Answer any THREE questions (10 X 3 = 30)**

1. a) Explain the concept of non-functional requirements with a neat sketch.

 b) What is Feasibility Study? Explain its role in project development.

1. a) Compare black-box vs white box testing data? Illustrate with examples

b) Explain the different integration testing approaches.

1. Discuss the concept of software maintenance process.
2. Illustrate how the “5 Ws and 1 H” principle can be utilized in software engineering project management. Explain in brief for each of the component