**SAINTGITS COLLEGE OF APPLIED SCIENCES**

**PATHAMUTTOM, KOTTAYAM**

**SECOND INTERNAL EXAMINATION, MARCH2020**

**Department of BCA, Semester4**

**SYSTEM ANALYSIS AND SOFTWARE ENGINEERING**

Total : 80 **marks** Time: **3 hours**

**Section A**

*Answer any 10 questions. Each question carries 2 marks.*

1. What are the components of software?

2.What is bath tub curve?

3.What is a system?

4.What is requirement Engineering?

5.What is QFD?

6.Give the components of use case approach?

7. What is LOC?

8. What is Software Reliability?

9. Write a short note on System testing.

10. Write a short note on McCall software quality model.

11. What are the differences between Verification & Validation?

12. What is Functional Count?

(10 x 2 = 20 Marks)

**Section B**

*Answer any 6 questions. Each question carries 5 marks.*

13.Write about the different phases of SDLC.

14.Write about the build and fix model.

15.Describe DFD.

16.Explain the data dictionary.

17.Explain about prototyping.

18. Explain about Size Estimation.

19. Write a detailed note on Software Quality.

20. Explain Graph Matrices.

21. Explain Capability Maturity Model.

(6 x 5 = 30 Marks)

**Section C**

*Answer any 2 questions. It carries 15 marks.*

22.Write about the different requirement elicitation techniques

23.Write about different life cycle models.

24. Explain in detail about Modularity.

25. Explain Structural testing.

(2 x 15 = 30 Marks)

*[Scan QR code for Answer Key]*