LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – **COMPUTER SCIENCE**

FIFTH SEMESTER – **NOVEMBER 2019**

16/17UCS5MC04 – SOFTWARE ENGINEERING

Date: 04-11-2019

Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

PART – A

Answer ALL the Questions: **(10x2=20 Marks)**

1. What are the characteristics of the software?

2. Define software process. State the important feature of a process.

3. Define software prototyping.

4. What is software risk?

5. Define Date Dictionary.

6. Define Data modelling.

7. List the principles of software design.

8. Define Abstraction.

9. What is boundary value analysis?

10. Distinguish between verification and Validation.

PART – B

Answer ALL the Questions: **(5x8=40 Marks)**

11. a. Explain iterative waterfall model for software life cycle and discuss various activities in each phase.

(or)

b. Explain size oriented metrics used in Software Engineering.

12. a. Explain about rapid Prototyping Technique.

(or)

b. Write about change control in SCM.

13. a. Write short notes on

   (i) Cardinality   (ii) Modality

(or)

b. Write short notes on structured analysis and explain the basic elements of DFD.

14. a. Write the meaning of software design and explain the design concepts.

(or)

b. Explain the effective modular design in detail.

15. a. Explain McCall's quality factors.

(or)

b. Describe the principles of testing.

PART – C

Answer any TWO Questions: **(2x20=40 Marks)**

16. a. (i) Explain in detail about software myths. (ii) Explain object oriented metrics.

b. Discuss about Software requirement Specification.

17. a. Discuss about Classical Analysis Methods.

b. Explain about Coupling and its types.

18. a. Explain about Black-Box Testing.

b. Give a brief note on Software project planning.

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