LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

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

FIFTH SEMESTER – **APRIL 2019**

16UCS5MC04 / CS 5505 – SOFTWARE ENGINEERING

Date: 16-04-2019 Dept. No. Max. : 100 Marks

Time: 09:00-12:00

SECTION A

ANSWER ALL THE QUESTIONS **(10 X 2 = 20)**

1. What are the problems encountered with linear sequential model?
2. State the various function oriented Metrics information domain values.
3. What are the various operational principles related to analysis methods.
4. Define risk projection. What are the four risk projection activities?
5. What is the purpose of data flow diagram?
6. Define cardinality.
7. What are the three characteristics that serve as a guide for the evaluation of a good design?
8. Write down the necessity of software design.
9. Write the objectives of white box testing.
10. Define black box testing

SECTION B

ANSWER ALL THE QUESTIONS **(5 X 8 = 40)**

11. a. Explain about the estimation of resources required to accomplish the software development effort.

(OR)

b. Discuss on the extended function point metrics in software cost estimation.

12. a. Discuss on software prototyping.

(OR)

b..Briefly explain about change control in Software Configuration Management

13. a. Explain the basic ER Diagram notations with an example.

(OR)

b. Discuss on various classical analysis methods

14. a.Explain about various design principles.

(OR)

b.Discuss on modularity in detail.

15. a. Define Software quality and what are McCalls quality factors?

(OR)

b. What is the term 'testability" meant for? Explain about various characteristics that lead to testable software.

SECTION C

ANSWER ANY TWO QUESTIONS **(2 X 20 = 40)**

16. a. Explain about various metrics for measuring software quality.

b. Explain about Risk Identification in detail.

17. a. Draw the Data Flow Diagram for online hotel reservation system

b. Explain about effective modular design.

18. a. Discuss on Software Requirements Analysis.

b. Explain about basis path testing.

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