LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

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

FIFTH SEMESTER – **NOVEMBER 2017**

CS 5505 – SOFTWARE ENGINEERING

Date: 02-11-2017   Dept. No.   Max. : 100 Marks
Time: 09:00-12:00

PART - A

Answer All Questions: **(10 * 2 = 20)**

1. What are the characteristics of a software?
2. What is the purpose of Project Indicators?
3. Define Baseline.
4. What information are present in Software Requirements Specification?
5. What is Cardinality? What are its types?
6. Expand the following abbreviations: DSSD , JSD, SADT.
7. Define Cohesion.
8. List any two technical criteria for a good design.
9. What are the attributes of a good design?
10. What is Black box testing? Mention any two Black box testing methods.

PART - B

Answer All Questions: **(5 * 8 = 40)**

11. a) Explain the Linear Sequential Model. What are its drawbacks?

    (or)

    b) Explain the role of people in effective Software Project Management.

12. a) Discuss about Version Control and Configuration Audit in the context of Software Configuration Management.

    (or)

    b) Discuss about the approaches, methods and tools to Software Prototyping.

13. a) Explain the structure of an analysis model.

    (or)

    b) Discuss the use of Entity-Relationship diagram for data modeling.

14. a) What is Coupling? Explain its types.

    (or)

    b) Write notes on (i) Abstraction   (ii) Structural Partitioning

15. a) Discuss about the characteristics of a testable software.

    (or)

    b) Discuss about McCall's Quality Factors.

PART - C

16. a) Write notes on (i) Function-oriented Metrics   (ii) Size-oriented Metrics

    b) Discuss about Software Risks.

17. a) Explain the usage of Data Flow Diagrams in Software Development with an

        example.

    b) Discuss about Software Design Principles

18. a) Write notes on (i) Cyclomatic Complexity (ii) Approaches to Debugging

    b) What is the objective of Software Project Planning? Discuss about the

        Resource estimation activity of Software Project Planning.

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