



# LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

## B.Sc. DEGREE EXAMINATION – COMPUTER SCIENCE

FIFTH SEMESTER – APRIL 2017

### CS 5505- SOFTWARE ENGINEERING

Date: 22-04-2017  
Time: 01:00-04:00

Dept. No.

Max. : 100 Marks

#### PART - A (10 \* 2 = 20)

Answer All Questions

1. What is CMM?
2. What is the purpose of a Software Process Model?
3. What are the characteristics of a software risk?
4. Why is Software Configuration Audit required?
5. Define Modality.
6. List some of the Classical Analysis Methods.
7. What are the types of Abstraction?
8. What are the characteristics that identify a good design?
9. Write any two objectives for Software Testing.
10. Draw the diagram that depicts McCall's Quality Factors.

#### PART - B (5 \* 8 = 40)

Answer All Questions

11. a) Discuss about the Waterfall Model.

(or)

b) Explain function-oriented metrics for software measurement.

12. a) Discuss about the Change Control Process.

(or)

b) Discuss about the categories of Software Risks.

13. a) Explain the objectives and elements of an analysis model.

(or)

b) Discuss about the use of Data Flow Diagrams to depict information flow in a software project.

14. a) Explain the basic Software Design Model.

(or)

b) Discuss about the basic design principles for a software design.

15. a) Discuss about any one Black Box Testing Method.

(or)

b) Explain the Basis Path Testing Method.

#### PART - C (2 \* 20 = 40)

Answer Any Two Questions

16. a) Discuss about the four P's that contribute to an effective software project management.  
b) Explain how software prototyping method helps in the requirements analysis phase.
17. a) Discuss about Data Modeling using Entity Relationship Diagram.  
b) Write notes on (i) Coupling (ii) Cohesion
18. a) Discuss about the process of Debugging.  
b) Discuss about the characteristics of a testable software

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