LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

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

FIFTH SEMESTER – **APRIL 2016**

CS 5505/CS 5502 – SOFTWARE ENGINEERING

Date: 29-04-2016   Dept. No.   Max. : 100 Marks
Time: 01:00-04:00

PART - A

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

1. Define Software.
2. What are the four types of changes encountered during the support phase?
3. What is the purpose of a software requirements specification?
4. List the various software risks.
5. What are the elements of an analysis model?
6. Define Cardinality.
7. What are the different levels of abstraction?
8. What is Refinement?
9. List the Testing Objectives.
10. Define Debugging.

PART - B

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

11. a) Discuss about the Linear Sequential Model.

(or)

    b) Explain size-oriented metrics for software measurement.

12. a) Discuss about the Software Configuration Management.

(or)

    b) Explain the process of Requirements Analysis.

13. a) Explain any one classic analysis methods for requirements specification.

(or)

    b) Write notes on (i) Data Objects   (ii) Attributes   (iii) Relationships.

14. a) Discuss about Coupling.

(or)

    b) Define Cohesion. Explain the various levels of Cohesion of a module.

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

(or)

    b) Explain White Box Testing.

PART - C

16. a) Explain any two evolutionary software process models.

   b) Discuss the usage of software prototyping method for requirements analysis.

17. a) Explain how Data Flow Diagram enables software engineers to develop models of the information domain and functional domain with an example.

   b) Discuss about basic software design principles.

18. a) Explain any two black-box testing techniques.

   b) Write notes on (i) Debugging process and approaches (ii) McCall's Software Quality Factors.

$$$$$$$