

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



B.Sc.DEGREE EXAMINATION –COMPUTER SCIENCE

FIFTH SEMESTER – APRIL 2018

CS 5505– SOFTWARE ENGINEERING

Date: 30-04-2018
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

PART A

Answer ALL Questions:

10 x 2 = 20 marks

1. What are the three software characteristics?
2. Define integrity.
3. What do you mean by risk projection?
4. What is requirements analysis?
5. Define cardinality and modality.
6. What is the use of Data Flow Diagram in analysis model?
7. What is information hiding?
8. Mention the three characteristics that serve as a guideline for good software design.
9. List down various debugging approaches.
10. Write down the various testing objectives.

PART B

Answer ALL Questions:

5 x 8 = 40 marks

11. a. Explain the spectrum “people” in management model.

(OR)

- b. Explain the linear sequential model.

12. a. Explain about identification of objects in the software configuration.

(OR)

- b. Discuss on Software Requirements Specification.

13. a. Explain the three classical analysis methods.

(OR)

- b. Draw a DFD for Automobile Service Station System.

14. a. Explain about various software design principles.

(OR)

b. Discuss on cohesion and coupling in detail.

15. a. Explain about McCalls quality factors.

(OR)

b. Write about the characteristics that lead to testable software.

PART C

Answer any TWO

2 x 20 = 40 marks

16.a. Explain about various empirical models in software project estimation.

b. Explain the following i. Change Control

(5 marks)

ii. Software Prototyping

(5 marks)

17. a. Draw the ER diagram for bus reservation system.

b. Explain about various design concepts (Any Five).

18. a. Explain about various black box testing strategies.

b. Write about the COCOMO Model.
