



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. & B.C.A., DEGREE EXAMINATION – COMPUTER SCIENCE & APP.

FIFTH SEMESTER – APRIL 2023

UCS 5505/UCA 5505 – SOFTWARE ENGINEERING

Date: 10-05-2023

Dept. No.

Max. : 100 Marks

Time: 01:00 PM - 04:00 PM

PART – A

Answer ALL the questions

(10 x 2 = 20 Marks)

1. State the difference between process and product.
2. Which process model leads to software reuse? Why?
3. What do you understand by verification and validation?
4. What is requirement engineering?
5. State the benefit of modular design.
6. Mention the common activities in design process.
7. Write any two characteristics of software as a product.
8. State on any Quality standard for software projects.
9. Write the purpose of path testing.
10. What is Black box testing?

PART – B

Answer ALL the questions

(5 x 8 = 40 Marks)

11. a) What are Software myths? Illustrate on these.
(OR)
b) Explain the Evolutionary process model. What are the advantages and disadvantages?
12. a) Elucidate the significances of System engineering hierarchy.
(OR)
b) Illustrate on Flow Oriented Modeling.
13. a) Describe golden rules for interface design.
(OR)
b) Illustrate on Cohesion and Coupling and its types.
14. a) Explain the basic concepts of Decomposition Techniques
(OR)
b) Summarize the significances of Software Quality-Assurance.
15. a) Bring out the testing strategies for conventional and Object-oriented software.
(OR)
b) Elaborate on Control structure testing.

PART – C

Answer any TWO questions

(2 x 20 = 40 Marks)

16. a) Discuss about Waterfall Model.
b) What is requirement engineering? State its process and explain requirement elicitation problem.
17. a) Explain the fundamental software design concepts in detail.
b) What are the objectives of Formal technical reviews? Discuss.
18. a) What is unit testing? Why is it important? Explain the unit test consideration and test procedure.
b) Highlight the significances of Object Oriented Testing Methods.

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