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Question Paper Code: 95C04

B.E./B.Tech. DEGREE EXAMINATION, NOV 2023

Third Semester

Computer Science and Business Systems

21UCB304– SOFTWARE ENGINEERING

(Regulations 2021)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

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| 1. | What is software process? List its activities. | CO1- U |
| 2. | What are the various categories of software? | CO1- U |
| 3. | What is data dictionary? | CO1- U |
| 4. | List the characteristics of good SRS. | CO1- U |
| 5. | Define data abstraction. | CO1- U |
| 6. | What is DFD? | CO1- U |
| 7. | What is regression testing? | CO1- U |
| 8. | How is software testing results related to the reliability of software? | CO1- U |
| 9. | What are the processes of risk management? | CO1- U |
| 10. | Define error, fault and failure. | CO1- U |

PART – B (5 x 16= 80 Marks)

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| 11. | (a) Explain in detail about spiral model with a neat diagram. | CO1- U | (16) |
| | (b) What are types of prescriptive process model | CO1- U | (16) |
| 12. | (a) Explain the execution of seven distinct functions accomplished in requirement engineering process. | CO1- U | (16) |
| | (b) What is SRS? Explain in detail about various components of an SRS | CO1- U | (16) |

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| 13. | (a) | Explain the basic concepts of software design | CO1- U | (16) |
| | (b) | Write short notes on architectural and component design. | CO1- U | (16) |
| 14. | (a) | (i) Describe about Debugging. (8m)
(ii) Write a note on software implementation techniques (8m) | CO1- U | (16) |
| | (b) | Write a note of
(i) Black box testing. (4)
(ii) Regression testing. (4)
(iii) White box testing (4)
(iv) Integration testing.(4) | CO1- U | (16) |
| 15. | (a) | Explain about all COCOMO models | CO1- U | (16) |
| | (b) | Describe steps involved in project scheduling process, project timeline chart and task network. | CO1- U | (16) |