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B.Sc. RNLKWC-/C9T/22

2022

COMPUTER SCIENCE

B.Sc. Fourth Semester End Examination - 2022

PAPER - C9T

Full Marks : 40

Time : 2 hours

*The figures in the right-hand margin indicate marks.  
Candidates are required to give their answers in their own  
words as far as practicable.  
Illustrate the answers wherever necessary.*

Group -A

- |  |        |
|--|--------|
| 1. Answer any five questions :               | 2×5=10 |
| a) Distinguish between program and software. | 2      |
| b) What is software product?                 | 2      |
| c) What is SRS document?                     | 2      |
| d) What do you mean by Lines of Code (LOC)?  | 2      |

*(Turn Over)*

( 2 )

- e) Define software quality assurance. 2
- f) What is the advantage of Prototype life cycle model? 2
- g) What is COCOMO Model? 2
- h) What is the difference between verification and validation? 2

**Group - B**

2. Answer any four questions : 4×5=20
- a) List down and explain the problems that lead to software crisis. What are the attributes of good software? 3+2
  - b) What is spiral model? How much it is different from the other models? 2+3
  - c) What are the characteristics of SRS? 5
  - d) Explain about different types of cohesion. 5
  - e) Briefly explain Halstead's software science. 5
  - f) What is the importance of testing? Distinguish between white-Box and Black-Box testing. 2+3

( 3 )

**Group - C**

3. Answer any one question : 1×10=10
- a) Explain classical waterfall model. State the limitations of this model and show how the limitation be overcome by modifying waterfall lifecycle model. 5+2+3
  - b) What are the top-down and bottom-up Integration testing? Explain with example. Differentiate alpha, beta and system testing. 6+4