NOVEMBER/DECEMBER 2019

BCA21 — C++ AND DATA STRUCTURE

Shanmuga Industries Arts & Science College T.V.Malai

Time : Three hours Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What is Object?
2. Define - Pointer.
3. What is Inline function? Write its syntax.
4. State the purpose of Destructor.
5. What is Polymorphism?
6. Define - File.
7. What is Stack?
8. Define - Linked List.
9. What is Binary Tree?
10. Define - Graph.

SECTION B — (5 × 5 = 25 marks)

Answer ALL the questions.

11. (a) Discuss on Fundamentals of C++.

Or

(b) Explain the Loop Statements Available in C++.

12. (a) Describe the Function Overloading concept with example.

Or

(b) Give an overview on Constructor and its types.

13. (a) Discuss: (i) Single Inheritance

(ii) Hybrid Inheritance

Or

(b) Explain the Error handling mechanism during File Operations.

14. (a) Write a detailed note on Primitive and Composite Data Types.

Or

(b) Describe the Doubly Linked List concept with example.

15. (a) Discuss on Recursive Tree Traversals.

Or

(b) Give an overview on Graph and its types.

Shanmuga Industries Arts & Science College T.V.Malai

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Describe the Operators available in C++.

17. Explain the Operator Overloading concept with example.

18. Define Inheritance? Explain Multiple and Multilevel Inheritance with example program.

19. Give an overview on Applications of Stack.

20. Explain the DFS and BFS concept.

———————