

B-28-B

Roll No.

Total No. of Questions : 21]

[Total No. of Printed Pages : 3

HSEIIRWZJO17

15228-B

COMPUTER SCIENCE

Time : 3 Hours]

[Maximum Marks : 70

(Long Answer Type Questions)

5 each

1. What do you understand by procedural programming paradigm and object oriented programming paradigm ?

Or

Write a C++ program that reverses and sums up the digits of an integer.

2. What is Inheritance ? Differentiate between multiple and multilevel inheritance.

Or

What are open() and close() functions in data file handling ? Explain.

3. What is binary search ? Write its algorithm.

Or

What is a stack ? Which operations are possible on a stack ? Explain.

Turn Over

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4. What is optical fiber ? Give its advantages and disadvantages.

Or

Give description of tree topology with its merits and demerits.

(Short Answer Type Questions)

5. Give syntax and meaning of ALTER table command.
6. Define Domain and tuple.
7. State principle of duality.
8. Differentiate between constructor and destructor.
9. What is scope resolution operator ? Explain.
10. Explain polymorphism.
11. What is circular queue ?
12. Describe tell $g()$ and seek $p()$ functions.

(Very Short Answer Type Questions)

13. What is deference operator ?
14. Define Selection sort.
15. Give truth table of AND gate.
16. What is a text file ?
17. What is publicly derived class ?
18. State inverse law.
19. What is virus and antivirus ?
20. Define DELETE operator.

(Objective Type Questions)

1 each

21. (i) A named list of a finite number of similar data elements is :
 (a) Array (b) Structure
 (c) Function (d) None of these
- (ii) A list of items in which additions are done at rear end and deletions are done at front end is :
 (a) Stack (b) Queue
 (c) Array (d) None of these
- (iii) A queue is a static data structure. (True/False)
- (iv) Each element in a linked list is generally called a node. (True or False)
- (v) The number of tuples in a relation is called (Fill up)
- (vi) Statement used to extract information from the database is called (Fill up)
- (vii) A half adder is used to add bits. (Fill up)
- (viii) A LAN is a computer network that is restricted to a area. (Fill up)
- (ix) URL (Give full form)
- (x) HTML (Give full form)