

# **Model Question Paper SET-I**

**2021**

## **COMPUTER SCIENCE**

(Class - XII<sup>th</sup>)

**TIME: 3 Hours**

**Full Marks-70**

**Pass Marks-23**

**All questions are compulsory.**

**Candidates are required to give their answers in their own words as far as practicable.**

### **General Instruction:**

**Group –A has 20 Multiple Choice Type Question each of 1 mark**

**Group –B has 07 Fill in the blank Type Question each of 1 mark**

**Group –C has 07 Very Short Answer Type Question each of 2 marks**

**Group –D has 05 Short Answer Type Question each of 3 marks**

**Group –E has 02 Long Answer Type Question each of 7 marks**

### **Group – A**

#### **Multiple Choice Questions:**

**Choose the correct answer from the following:**

**1 X 20 = 20**

- 1) The use of the break statement in a switch statement is
  - i) optional
  - ii) compulsory
  - iii) to check an error
  - iv) none of these
  
- 2) The smallest individual unit is
  - i) Keywords
  - ii) Identifiers
  - iii) Token
  - iv) Strings
  
- 3) The keyword used to define a structure is
  - i) stru
  - ii) st\_struct
  - iii) struct
  - iv) Structure

- 4) Base Class is
- normal class
  - Derived class
  - child class
  - all of these.
- 5) In Private inheritance a protected data member of the base class will be treated in derived class as
- public
  - protected
  - private
  - none of these
- 6) A set of arithmetic operators is
- +, -, \*, /, %
  - < . > , >= , <=,
  - && , || , !
  - none of these
- 7) Which of the following is an entry-controlled loop?
- for
  - while
  - do-while
  - all of the mentioned
- 8) Which of the following is not a type of constructor?
- Copy constructor
  - Parameterised constructor
  - Default constructor
  - Friend constructor
- 9) Scope resolution operator is \_\_\_\_\_
- ::
  - :::
  - >
  - <-
- 10) In Object Oriented programming ,by Wrapping up characteristic and behavior into one unit ,we achieve
- Data Abstraction
  - Data Encapsulation
  - Data hiding
  - All of these
- 11) DBMS stands for
- Database Management System
  - Database Manual System
  - Define Management Solution
  - None of the above
- 12) Which of the following concepts provides facility of using object of one class inside another class?
- Encapsulation
  - Composition

iii) Abstraction

iv) Inheritance

13) STACK follows

i) GIGO Technique

ii) FIFO Technique

iii) LIFO Technique

iv) none of these

14) The process of finding the location of the particular element in the array is called

i) Traversal

ii) Searching

iii) Sorting

iv) none of these

15) The term 'attribute' refers to a

i) Table

ii) Row

iii) Column

iv) Relation

16) The solution of  $X + XY$  is equal to

i)  $X$

ii)  $\overline{X}$

iii)  $X + Y$

iv) none of these

17) Normalization is used to reduce

i) Data redundancy

ii) Data inconsistency

iii) Data security

iv) none of these

18) What is the full form of SQL?

i) Structured Query Language

ii) Structured Query List

iii) Simple Query Language

iv) None of these

19) In which topology every node has an equal chance to transmit data?

i) Ring

ii) Star

iii) Bus

iv) Mesh

20) Network device (s) is/are

i) Ethernet Card

ii) Hub

iii) Router

iv) All of these

## GROUP – B

### Fill in the blanks Type Question:

1 X 7 = 7

- 21) C++ was developed by \_\_\_\_\_
- 22) Full Form of OOP is \_\_\_\_\_
- 23) \_\_\_\_\_ are known as Universal Gate
- 24) The header file of setw() is \_\_\_\_\_
- 25) \_\_\_\_\_ command is used to find the structure of a database.
- 26) A stack is a \_\_\_\_\_ data structure
- 27) \_\_\_\_\_ was the first network based on TCP/IP protocols.

## GROUP – C

### Very Short Answer Questions:

2 X 7 = 14

- 28) How is an entry controlled loop different from exit controlled loop?
- 29) Evaluate the following C++ expressions where a, b, c are integers and d, f are floating point numbers. The values are a=5, b=3 and d=1.5
  - a)  $f = a++ + b/a$
  - b)  $c = (a++) * d + ++a$
- 30) Differentiate between class and object.
- 31) Give the output of the following:

```
#include<iostream.h>
Void main ()
{
    Int x;
    for( x=1 ; x<=20 ; x+=5)
        cout<<x<<endl;
}
```
- 32) What do the following expressions evaluate to?
  - i)  $17\%3$
  - ii)  $1/2$
- 33) Differentiate between DDL and DML
- 34) Prepare a truth table for  $XY\bar{Z} + \bar{X}Y\bar{Z}$

## GROUP – D

### Short Answer Questions:

**3 X 5 = 15**

- 35) Write a Program in C++ to find the factorial of any positive integer number.
- 36) What is Normalization? Explain briefly
- 37) What is Basic Logic gate? Explain
- 38) What is Data Structure? Explain different types of Data structure
- 39) What is the difference between LAN and WAN

## GROUP – E

### Long Answer Type Questions:

**7 X 2 = 14**

40) Given the following Student Relation

ROLL	NAME	MARKS
1	AMIT	78
2	RAJ	56
3	AIZAH	65

- (a) To show all information of the table student.
  - (b) To show the information of Roll ,Name from the table Student.
  - (c) To show all the information of table student whose Marks>60
  - (d) To display the structure of the table student.
  - (e) To show the information of the table student whose name started with 'A'.
  - (f) To show all records of the table student in descending order by ROLL.
  - (g) To delete all Record of the table student
- 41) (a) What is STACK? Explain all operation of Stack
- (b) Write an algorithm of Selection Sort

