

32. a. Explain method overloading in C# with examples.

(OR)

b. With an example, explain any two types of inheritance in C#.

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Reg. No.

B.Tech. DEGREE EXAMINATION, NOVEMBER 2018

Fifth/Sixth/Seventh Semester

SE1203 – OBJECT ORIENTED PROGRAMMING

(For the candidates admitted during the academic year 2013 – 2014 and 2014 – 2015)

Note:

- (i) **Part - A** should be answered in OMR sheet within first 45 minutes and OMR sheet should be handed over to hall invigilator at the end of 45<sup>th</sup> minute.
- (ii) **Part - B** and **Part - C** should be answered in answer booklet.

Time: Three Hours

Max. Marks: 100

**PART – A (20 × 1 = 20 Marks)**

Answer ALL Questions

- Which data type is used to represent the absence of parameters?  
(A) int (B) short  
(C) void (D) float
- The value 132.54 can be represented using which data type?  
(A) Double (B) Void  
(C) int (D) Bool
- What is the default access level to a block of data in C++?  
(A) Public (B) Protected  
(C) Private (D) Static
- Which of the following correctly declares an array?  
(A) int array [10]; (B) int array;  
(C) Array {10}; (D) array array [10];
- Function overloading is also similar to which of the following?  
(A) Operator overloading (B) Constructor overloading  
(C) Destructor overloading (D) Object overloading
- Which of the following is multiple inheritance?  
(A) Deriving a base class from derived (B) Deriving a derived class from base class  
class  
(C) Deriving a derived class from more (D) Deriving base class from two derived class  
than one base class
- Which of the following operators cannot be overloaded?  
(A) :: (B) +  
(C) - (D) []
- Which of the following accesses the seventh element stored in array?  
(A) Array [6] (B) Array [7]  
(C) Array (7) (D) Array

9. Which method can be defined only once in a program?  
 (A) Main method (B) Finalize method  
 (C) Static method (D) Private method
10. What is the value stored in X in the following line of code?  

```
int x, y, z;
x = 0
y = 1
x = y = z = 8;
```

 (A) 0 (B) 1  
 (C) 9 (D) 8
11. Which of these keyword can be used in subclass to call the constructor in superclass?  
 (A) Super (B) This  
 (C) Extent (D) Extends
12. Which of these is correct way of calling a constructor having no parameters of superclass A by subclass B?  
 (A) Super (void) (B) Superclass ()  
 (C) Super A () (D) Super ()
13. Which of these access specifiers can be used for a class so that its members can be accessed by a different class in the different package?  
 (A) Public (B) Protected  
 (C) Private (D) Static
14. Which of these keywords can be used to prevent inheritance of a class?  
 (A) Super (B) Constant  
 (C) Class (D) Final
15. Which of the following package stores all the standard java classes?  
 (A) Lang (B) Java  
 (C) Util (D) Java.packages
16. Which method of string class is used to obtain the length of string objects?  
 (A) Get () (B) Size of ()  
 (C) Length of () (D) Length ()
17. How many bytes are stored by 'Long' Data type in C++?  
 (A) 8 (B) 4  
 (C) 2 (D) 1
18. Which of the following is used to define the member of a class externally?  
 (A) : (B) ::  
 (C) # (D) []
19. The number of levels of inheritance are  
 (A) 5 (B) 4  
 (C) 3 (D) 2

20. In inheritance concept, which of the following members of base class are accessible to derived class members?  
 (A) Static (B) Protected  
 (C) Private (D) Shared

**PART – B (5 × 4 = 20 Marks)**  
 Answer ANY FIVE Questions

21. Write a C++ program to find the sum of first 5 even numbers using class and objects.
22. Write a C++ program to swap two integers using call by reference.
23. What is virtual function? Write a C++ program for it.
24. With an example, describe nested classes in Java.
25. How multiple inheritance is achieved in Java? Give an example.
26. What is the purpose of super keyword in JAVA?
27. How arrays are created in C#? Give an example.

**PART – C (5 × 12 = 60 Marks)**  
 Answer ALL Questions

28. a. Explain the basic concepts of OOPS.

(OR)

- b. Explain the following with an example

- (i) Constructors  
 (ii) Parameterized constructor  
 (iii) Copy constructor

29. a. How to overload operators in C++ program? Write a C++ program to overload unary(-) operator.

(OR)

- b. What is inheritance? Write a C++ program to explain different types of inheritance.

30. a. Create a base class "figure" and implement the "area ()" method for various shape() in the derived class.

(OR)

- b. How naming conflict is resolved in Java? Write a program to import packages in classes.

31. a. Explain exception handling in java with suitable examples.

(OR)

- b. Write a java program to implement constructor overloading.