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Question Paper Code: 98467

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2022

One credit

Electronics and communication Engineering

21UEC869 - Programming in C++

(Regulations 2019)

(Common to All Branches)

Duration: 1.30 minutes

Maximum: 30 Marks

Answer ALL Questions

PART A - (1 x 30 = 30 Marks)

- Which of the following provides a reuse mechanism?
(a) Abstraction (b) Inheritance (c) Dynamic binding (d) Encapsulation
- What will be the output of the following C++ code?
int main ()

{
int n;
for (n = 5; n > 0; n--)
{
cout<<n;
if (n == 3)
break;
}
return 0;
}
(a) 543 (b) 54 (c) 5432 (d) 53
- Which of the following is not the member of class?
(a) Static function (b) Friend function (c) Const function (d) Virtual function
- Which of the following concepts means determining at runtime what method to invoke?
(a) Data hiding (b) Dynamic Typing
(c) Dynamic binding (d) Dynamic loading

5. Which of these won't return any value?
 (a) void (b) null (c) free (d) empty
6. Which of the following function declaration is/are incorrect? .
 (a) `intSum(int a, int b = 2, int c = 3);` (b) `intSum(int a = 5, int b);`
 (c) `intSum(int a = 0, int b, int c = 3);` (d) Both B and C are incorrect
7. How many instances of an abstract class can be created?
 (a) 1 (b) 5 (c) 13 (d) 0
8. Which of the following cannot be friend?
 (a) Function (b) Class (c) Object (d) Operator function
9. Which of the following comment syntax is correct to create a single-line comment in the C++ program?
 (a) `//Comment` (b) `/Comment/` (c) `Comment//` (d) None of the above
10. Which of the following statement is correct?
 (a) A constructor is called at the time of declaration of an object.
 (b) A constructor is called at the time of use of an object.
 (c) A constructor is called at the time of declaration of a class.
 (d) A constructor is called at the time of use of a class.
11. Which of the following correctly describes overloading of functions?
 (a) Virtual polymorphism (b) Transient polymorphism
 (c) Ad-hoc polymorphism (d) Pseudo polymorphism
12. Which of the following two entities (reading from Left to Right) can be connected by the dot operator?
 (a) A class member and a class object. (b) A class object and a class.
 (c) A class and a member of that class. (d) A class object and a member of that class.
13. Which of the following is the correct syntax for printing the address of the first element?
 (a) `array[0];` (b) `array[1];` (c) `array[2];` (d) None of the above
14. Which of the following features must be supported by any programming language to become a pure object-oriented programming language?
 (a) Encapsulation (b) Inheritance (c) Polymorphism (d) All of the above
15. Which of the following approach is adapted by C++?
 (a) Top-down (b) Bottom-up (c) Right-left (d) Left-right

16. _____ function is used to allocate space for array in memory.
 (a) malloc() (b) realloc() (c) alloc() (d) calloc()
17. Which of the following is correct about function overloading?
 (a) The types of arguments are different. (b) The order of argument is different.
 (c) The number of argument is same (d) Both A and B.
18. Which of the following concepts means wrapping up of data and functions together?
 (a) Abstraction (b) Encapsulation (c) Inheritance (d) Polymorphism
19. What is the output of below program?

```
int main()
{
int a = 10;
a=a++ + ++a;
cout<<a;
return 0;
}
```

 (a) 20 (b) 21 (c) 22 (d) 23
20. Which of the following is the correct class of the object cout?
 (a) iostream. (b) istream (c) ostream (d) ifstream
21. Which of the following cannot be used with the keyword virtual?
 (a) class (b) member functions (c) constructor (d) destructor
22. Constructor is executed when _____.
 (a) an object is created (b) an object is used
 (c) a class is declared (d) an object goes out of scope.
23. Which of the following problem causes an exception?
 (a) Missing semicolon in statement in main(). (b) A problem in calling function
 (c) A syntax error. (d) A run-time error.
24. Which of the following concepts is used to implement late binding?
 (a) Virtual function (b) Operator function
 (c) Const function (d) Static function
25. Which of the following can be overloaded?
 (a) Object (b) Functions (c) Operators (d) Both B and C

26. Which of the following is a mechanism of static polymorphism?

- (a) Operator overloading
- (b) Function overloading
- (c) Templates
- (d) All of the above

27. What is the value of a in below program?

```
int main()
{
int a, b=20;
a = 90/b;
return 0;
}
```

- (a) 4.5
- (b) 4.0
- (c) 4
- (d) Compilation Error

28. What will happen if a class is not having any name?

- (a) It cannot have a destructor.
- (b) It cannot have a constructor.
- (c) It is not allowed.
- (d) Both A and B.

29. Which of the following is an invalid visibility label while inheriting a class?

- (a) public
- (b) private
- (c) protected
- (d) friend

30. What will be the output of the following program?

```
int main()
{
int a = 5;
float b;
cout<<sizeof(++a + b);
cout<< a;
return 0;
}
```

- (a) 25
- (b) 26
- (c) 45
- (d) 46