



CBCS SCHEME

21CS382

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Question Paper Version : A

Third Semester B.E. Degree Examination, Jan./Feb. 2023 Programming in C++

Time: 1 hr.]

[Max. Marks: 50

INSTRUCTIONS TO THE CANDIDATES

1. Answer all the **fifty** questions, each question carries one mark.
2. Use only **Black ball point pen** for writing / darkening the circles.
3. **For each question, after selecting your answer, darken the appropriate circle corresponding to the same question number on the OMR sheet.**
4. Darkening two circles for the same question makes the answer invalid.
5. **Damaging/overwriting, using whiteners** on the **OMR** sheets are strictly prohibited.

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1. Which of the following approach is used by C++?
a) Left-right b) Right-left c) Bottom-up d) Top-down.
 2. Object based language differs from object oriented language as it does not support features _____.
i) Encapsulation ii) Inheritance iii) Dynamic Binding iv) Abstraction
a) Only (iii), (iv) b) Only (i), (iii) c) Only (ii), (iv) d) Only (ii), (iii)
 3. Who is founder of C++?
a) Dennis Ritchie b) Ken Thompson c) Braian Kernighan d) Bjarne Stroustrup.
 4. Which of the following features must be supported by any programming language to become a pure object-oriented programming language?
a) Inheritance b) Encapsulation c) Polymorphism d) All of the above
 5. Identify the user-defined types from the following?
a) enumeration b) classes
c) int d) both enumeration and classes
 6. What is meant by polymorphism in C++?
a) Class having only single form b) Class having four forms
c) Class having many forms d) Class having two forms

16. State whether the following statements are true or false for C++ identifiers:
- i) Only alphabetic characters, digits and underscores are permitted.
 - ii) The name can start with a digit.
 - iii) Uppercase and lowercase letters are distinct
- a) i – True, ii – True, iii – False b) i – True, ii – False, iii – True
c) i – True, ii – False, iii – False d) i – True, ii – True, iii – True.
17. The binding of data and functions together into a single class type variable is referred to as _____
- a) Encapsulation b) Polymorphism c) Inheritance d) Overloading
18. Which of the following is not the user defined data type in C++?
- a) Structure b) Pointer c) Union d) Class
19. We can create _____ in C++ using the qualifier constant and defining a set of integer constant using enum keywords.
- a) Basic Constant b) Number constant
c) Symbolic constant d) Named constant
20. Which of the following is the scope resolution operator in C++
- a) :: b) :: * c) > * d) . *
21. The _____ manipulator is used in an output statement which causes a linefeed to be inserted.
- a) setw b) delete c) endl d) symbol
22. Which of the following are the types of C++ expressions:
- i) Constant expressions ii) Integral expressions
 - iii) Float expressions iv) Null expressions
- a) i, ii and iii only b) ii, iii and iv only c) i, ii and iv only d) All of the above
23. _____ combine to or more relational expressions and produces bool type results.
- a) relational b) float c) logical d) bitwise
24. The operator _____ is known as a compound assignment or short-hand assignment operator.
- a) == b) = c) += d) += =
25. The following is _____ expressions $x = y = z = 10$
- a) Embedded assignment b) Logical assignment
c) Chained assignment d) Compound assignment

26. Constructor has the same _____ as that of the class.
a) Variable b) Object c) Function d) Name
27. What will be the output of the following C++ code?
include <iostream>
using namespace std;
void swap (int &a, int &b)
{
 int temp;
 temp = a;
 a = b;
 b = temp;
}
int main()
{
 int a = 5, b = 10;
 swap (a, b);
 cout << "In main" << a << b;
 return 0;
}
a) In main 10 5 b) In main 5 10 c) Error d) No output
28. A constructor that accepts no parameters is called _____
a) default constructor b) parameterized
c) implicit constructor d) null constructor
29. Constructors cannot be inherited, through a derived class can call the _____ constructor.
a) base class b) derived class
c) void class d) default class
30. What will be the output of the following C++ code?
include <iostream>
using namespace std;
int main()
{
 int a = 9;
 int &aref = a;
 a++;
 cout << "The value of a is" << aref;
 return 0;
}
a) 9 b) 10 c) error d) 11

31. Destructor is a member function whose name is as the class name but is preceded by a _____
a) tilde b) hash c) dot d) dollar
32. The _____ inherits some or all of the properties of the _____ class.
a) base, derived b) derived, base c) derived, initial d) base, final
33. A class can inherit properties from more than one class which is known as _____ inheritance.
a) single b) multiple c) multilevel d) hierarchical
34. When the base class is publicly inherited, public members of the base class become _____ of the derived class?
a) private members b) public members c) protected d) not inherited
35. _____ inheritance may lead to duplication of inherited members from a 'grandparent' base class.
a) multipath b) multilevel c) hybrid d) hierarchical
36. By default, all the files in C++ are opened in _____ mode.
a) Binary b) Text c) ASCII d) Numeric
37. Which operator is used to create the user-defined streams in C++?
a) >> b) << c) & d) >> & <<
38. What does the cerr represent?
a) Standard input stream b) Standard output stream
c) Standard error stream with no buffer d) Standard buffer stream
39. Function which reads a character from cin and stores what is read in ch is
a) cin . get (ch) b) get (ch)
c) cout . put (ch) d) cin . put (ch)
40. Which header file is used for reading and writing to a file?
a) # include <iostream> b) # include <fstream>
c) # include <file> d) # include <fe>
41. Which operator is used to insert the data into file?
a) >> b) << c) < d) >

