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**SUBJECT CODE NO: BB-2546**  
**FACULTY OF SCIENCE AND TECHNOLOGY**  
**B.Sc. (CBCGS)(Pattern 2022) S.Y SEM IV**  
**Examination November / December 2025**  
**Computer Science-XIII Object Oriented Programming Using C++**

**[Time: 1:30 Hours]****[Max. Marks:40 ]**

Please check whether you have got the right question paper.

N. B

- (1) All questions are compulsory  
 (2) All questions carry equal marks

**Q.1** (a) Explain the basic concepts of Object-Oriented Programming with examples. **10**

**OR**

- (a) Differentiate between Procedural and Object-Oriented Programming.  
 (b) Write a short history of C++.

**Q.2** (a) Explain the structure of a C++ program with an example. **10**

**OR**

- (a) What is Polymorphism?  
 (b) Explain the use of 'cin' and 'cout' in C++.

**Q.3 Write short on (Any two)**

1. Inline Function
2. Function Overloading
3. Constructor
4. Benefits of OOP

**10****Q.4 Multiple choice questions****10**

1. Which of the following is NOT an Object-Oriented Programming concept?
 

|                  |                 |
|------------------|-----------------|
| a) Encapsulation | b) Polymorphism |
| c) Recursion     | d) Inheritance  |
2. Which concept allows the same function to have different implementations?
 

|                |                  |
|----------------|------------------|
| a) Abstraction | b) Encapsulation |
| c) Inheritance | d) Polymorphism  |
3. Which OOP concept allows defining multiple methods with the same name but different arguments?
 

|                         |                         |
|-------------------------|-------------------------|
| a) Function overriding  | b) Function overloading |
| c) Operator overloading | d) Virtual function     |
4. Who developed C++?
 

|                   |                      |
|-------------------|----------------------|
| a) Dennis Ritchie | b) Bjarne Stroustrup |
| c) James Gosling  | d) Guido van Rossum  |
5. Which operator is used for scope resolution in C++?
 

|       |      |       |      |
|-------|------|-------|------|
| a) :: | b) . | c) -> | d) : |
|-------|------|-------|------|
6. Which header file is required to use cin and cout?
 

|               |             |
|---------------|-------------|
| a) iostream.h | b) stdio.h  |
| c) conio.h    | d) iostream |

7. What is the output of `cout<< "Hello, World!";`?
  - a) Hello, World!
  - b) "Hello, World!"
  - c) Print Hello, World!
  - d) None of the above
8. Which function does NOT return a value?
  - a) `int`
  - b) `void`
  - c) `float`
  - d) `return`
9. What is an inline function in C++?
  - a) A function that is expanded at the point of invocation
  - b) A function with default arguments
  - c) A function that is private
  - d) A function with reference parameters
10. Which of the following is NOT a valid function prototype?
  - a) `int sum (int, int);`
  - b) `void display ();`
  - c) `float add();`
  - d) `function myFunc();`

