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**GS-647**

II Semester B.C.A. Examination, May/June - 2019

**COMPUTER SCIENCE**

**BCA-204 : Object Oriented Programming Using C++ (2K8)**

Time : 3 Hours

Max. Marks : 70

**Instructions** : Answer **all** sections.

**SECTION - A**

Answer **any ten** questions. Each question carries **one** marks.

**10x1=10**

1. Define Data Abstraction.
2. What is the need of header files in C++ ?
3. Define class.
4. Write the significance of scope resolution operator.
5. Name the default access specifier in C++.
6. What is Hybrid Inheritance ?
7. What is the purpose of using constructors ?
8. Name any two operations performed by using pointers.
9. What is polymorphism ?
10. What is friend function ?
11. Define virtual function.
12. What is the use of EOF ?

**P.T.O.**

**SECTION - B**

Answer **any five** questions. Each question carries **three** marks.

**5x3=15**

13. List the various features of OOPs. Write any two limitations of OOPs.
14. What is constant Qualifier ? Explain with example.
15. How do function defined in C++ ?
16. What is inline function ? Name two advantages of it.
17. Explain any three built in string functions with example.
18. What is the difference between actual parameter and formal parameters ?
19. What is function overloading ? Explain with an example.
20. What is a function template ? Explain.

**SECTION - C**

Answer **any five** questions. Each question carries **seven** marks.

**5x7=35**

21. (a) Write the applications of object oriented programming.  
(b) Explain class definition with an example.
22. (a) Describe the different data types used in C++.  
(b) Write the difference between call by value and call by reference.
23. What is constructor ? Write the different rules in naming constructor in OOPs.
24. Write a C++ program to overload '+' operator to perform addition of two matrices.
25. What is Inheritance ? Explain the different types of inheritance and also write the advantages of it.
26. Explain overriding functions with an example.



27. (a) Describe the different modes of opening a file in C++.  
(b) Explain the file pointers seekp(), tellp() and seekg().
28. Write a C++ program to search an element using templates.

**SECTION - D**

Answer **any one** question. Each question carries **ten** marks.

**1x10=10**

29. Write a C++ program to find the largest of three numbers using template.
30. Explain the mechanism of Exception Handling in C++ with various blocks associated with Exception Handling.

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