Roll No. ....

B.C.A. (II)

1718

Obj. Orient. Prog. C++

B.C.A. Part-II EXAMINATION - 2022

Paper - IX

BCA 203 - OBJECT ORIENTED PROGRAMMING WITH C++

Time Allowed : **Three** Hours

Maximum Marks : **80**

Note : 1. Question No. 1 is Compulsory. Attempt any **FOUR** from the remaining questions.

2. All questions carry equal marks.

1. (a) What do you mean by Naming space? 2×8=16

    (b) What is Token?

    (c) Define the term class?

(d) What is Function?

(e) Define the Term files.

(f) What is String?

6

(g) Define the term Data-Structure?

(h) What is an Exception?

2. (a) What is object-oriented programming? How is it
different from the POP?

7

(b) Write a C++ program to calculate a factorial of a
given number. 8×2=16

3. (a) What is an Operator function? Describe the syntax
of an operator function.

(b) Write a C++ program to calculate an area of triangle
and circle using function overloading. 8×2=16

4. (a) What is an Inheritance? Explain single level and
hierarchical inheritance with the help of suitable
example.

(b) What is Polymorphism and also explain its types
with the help of examples. 8×2=16

5. Explain the following : 4×4=16

(i) Access modifiers

(ii) This variable

(iii) Sequential access file

(iv) Random access file

6. (a) Write a C++ program to show the use of Binary operator overloading.

(b) What are the advantages of using exception handling mechanism in a program. 8×2=16

7. Write short notes on the following : 4×4=16

(i) Queues

(ii) Catching

(iii) Rules of overloading operators

(iv) Control structures

--X--