Roll No.

Total No. of Questions: 9]

[Total No. of Printed Pages: 4

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BCA (CBCS) RUSA IIIrd Semester Examination

4516

OBJECT ORIENTED PROGRAMMING WITH

C++

BCA-0304

Time: 3 Hours]

[Maximum Marks: 70

Note: Attempt five questions in all. Question No. 1 (Part
A) is compulsory containing 10 fill in the blanks of
I mark each and five short answer questions of
4 marks each. Select one question each from Parts
B, C, D and E.

Part-A

(Compulsory Question)

- 1. Fill in the blanks:
 - The ability of a function or operator to act in different ways of different data types is called

C-580

(1)

Turn Over

- If class A inherits its properties from class B, (11) then A and B are known as class and class respectively. (111) member function can never be accessed by inherited classes. (iv) A function with no return type is declared as (v) Variable of a class is called ... Field. , (vi) OOPs follow approach in program design. (vii) A method does not return a value. (viii) A is a special member function whose task is to initialize the objects of its class. (ix) An is a instance of a class. In function overloading, two functions can have the same in a program. $1 \times 10 = 10$ Short answer type questions (25 to 50 words)
 - (i) What is the difference between equal to (= =) and Assignment operator (=) ?



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- (ii) Explain scope resolution operator.
- (iii) What are the comments in C++ ?
- (iv) What is class?
- (v) What is the role of protected access specifier?
 Explain with example.
 4x5=20

Part-B

Unit-I

- (8)
- Explain various characteristics of object oriented programming language.
- (a) Explain the basic structure of C++ program with example.
 - (b) Define variable in C++. Explain with example.
 6+4=10

Part-C

Unit-II

 (a) Write a program in C+F to print first 10 natural numbers.



- (b) Explain if-else and switch statements with the help of example. 5+5=10
- (a) Explain structures. How the structure members are accessed.
 - (b) Explain the concept of overloaded function with the help of example. 5+5=10

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(3)

Turn Over

Part-D

Unit-III

- 6. (a) Define Constructors. What is the use of a constructor? Explain.
 - (b) Describe objects and classes. What are the components of a class?

 5+5=10
- (a) Explain Array. How the elements of an array can be accessed? Explain with example.
 - (b) Explain Multidimensional arrays. How an array can be initialized? Describe. 5+5=10

Fart-E

Unit-IV

- (a) Define operator overloading. Explain the limitations of increment operator.
 - (b) -Explain the pitfalls of operators overloading and conversion.
 5+5=10
- (a) Explain the concept of derived class and base; class.
 - (b) Define Inheritance. Explain its types. 5+5=10