Total No. of Questions: 9] [Total No. of Printed Pages: 4 (1107)

B.C.A. UG (CBCS) RUSA IIIrd Semester Examination

3844

OBJECT ORIENTED PROGRAMMING WITH C++ BCA-304

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 1 mark each and five short answer questions of 4 marks each. Select one question each from Part B, C, D and E.

Part-A

(Compulsory Question)

- 1. Fill in the blanks:
 - (i) In OOP a is a combination of data and function.
 - used to perform task on data created in a object or class.

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(1)

Turn Over

- (iii) A is an instance of a class.
- (v) Preprocessor directives are also called as directives.
- (vi) means that the value of the variable is incremented before the value is used in the context.
- (vii) The priority given to the operator is called
- (viii) provides a mechanism of execute same sequence of instructions repeatedly until a condition is reached.

Short Answer Type Questions (25 to 50 words):

(xi) Define scope resolution operator and also its purpose.

void aparatent+()

(xiii) What is the role of special operator.(dot)?

(xiii) Differentiate how switch statement differ from ladder if statement.

(xiv) With the help of examples differentiate between unary, binary and ternary operator.

(xv) What is function prototype? Explain.

5×4=20 20

Part-B

(Unit-I)

- What are the main advantages and disadvantages of object oriented programming language? Also write main points of difference between C and C++.
 2x5=10
- 3. Explain the following terms :
 - (i) Implicit and explicit conversion
 - (ii) Modulus operator .
 - (iii) Type bool
 - (iv) SETW Manipulator

755

 $4 \times 2.5 = 10$

Part-C

- (i) Write a program to find whether a number is a prime or a composite number.
 - (ii) Differentiate between break and continue statement. 2×5=10

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(3)

Turn Over

- 5. (i) Differentiate between pass by value and pass by reference.
 - Write a program to find the factorial of a number using user defined function. 2×5=10

Part-D

(Unit-III)

- 6. Explain the following terms:
 - (i) Constructor
 - (ii) Pointer
 - (iii) Structure
 - (iv) Union

 $4 \times 2.5 = 10$

8

0

7. Write the inbuilt string handling function to concatenate two strings. Also write a program for string concatenation. 2x5=10

Part-E (Unit-IV)

- 8. What is operator overloading? Write a program to overload Postfix Increment operator C++. 2×5=10
 - With the help of program define multiple inheritance. What is ambiguity problem in multiple inheritance? Explain.

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