Please write pour Econ Roll No.

END TERM EXAMINATION
Thing Desarries [BCA] JANUARY FERROMY 2023
Paper Code: BCA 205
Subject: Object Oriented Programming with C++
Time: 3 Hours
Note: Attempt five questions in all including O.No. 1 which is compulsory.
Select one question from each unit.

Write the short note on the following-tal saluse function

(b) Describe the various benefits of OOP.

(c) New Vs Delete
(d) Static data member
(e) Copy constructor
(d) Virtual base class
(g) Priend function
(i) Class tamplate
(ii) Class tamplate
(iii) Early Vs Late binding (2.5X10=25)

Q2. (a) Explain the following terms:
(b) Literals (a) implicit conversion
(c) of old-program that will find out whether the given number is even
(c) of old-program that will find out whether the given number is given
(c) of it is odd number then find out whether it is prime or
not?
(3.545-9.5)

(3. (a) Illustrate the comparison between C and C++.
(b) Describe the concepts of parameter passing by value, reference and pointer with the help of an example.

(8)

UNIT-II

Q4. (a) Explain the concept of constructor overloading and function overloading.
(b) What do you understand by access specifiers? What are these access specifiers?
(6.5)

speciators (6.5)

(5. (a) Define a class Teacher with the following specifications: Private members:
Name 20 characters
Subject 10 characters
Subject 10 characters
Subject 10 characters
Subject 10 characters
Calculate (1) function computes the salary and returns it. Salary is sum of Bestir, DA and HRA

P.T.O.

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Public members: [2-]
Readdata () function accepts the data values and invokes the calculate function prints the data on the screen.
Displaydata () function prints the data on the screen.
Displaydata () function properties of a constructor? (2.5)

UNIT-III

Q6. (a) How can a data member and member function present in public mode in class be accessed through pointer object? Explain it by taking an example.

(b) Create class COMPLEX and overload binary + operator to add object. (5.5)

(5.5)

Q7. Define an inheritance and its advantage? Explain the types of inheritance. (2.5+10=12.5)

inheritance.

UNIT-IV

Q8. (a) What do you mean by generic programming? Write a program to swap the any two different types of variables using function template.

(b) Create a class Stack that throws Overflow and Underflow exceptions.

(6.5)

Q9. (a) Explain the following terms: (6)
(i) seckg () (ii) getline () (iii) write ()
(b) What is the file access mode? Describe the various file modes. (6.5)

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