## Please write gour Exam Roll No.) END TERM EXAMINATION

 Paper Code: BCA $205 \quad$ Subject: Object Oriented Programming with C++
Time 3 Hours
Maxtmum Marks: 75


Qi. Write the short note on the following:- $\quad$ (2.5x10=25)
Write the short note on the following:
(abl Iline function
(b) Describe the various benefits of (b) Describe the vario
(c) New vevelete
(d) Static data memb
(d) Static data men
(e) Cory
(A Virtual bastructor

(- $\quad \begin{aligned} & \text { (h) Class template } \\ & \text { (i) This pointer } \\ & \text { (j) Early } \\ & \text { s. Late binding }\end{aligned}$


 or odd
If it is odd number then find out whether it is prime or
not?
$(3.5+5=8.5)$
 Q4. (a) Explain the concept of constructor overloading and function


## Q5. (a)

(a) Define a class TTeacher with the following specifications:
Privet enember
Name 20 characters

Basic, DA, HRA
Salaty
Calculate (

## function computes the salary and returns it. Salary is

$1-2$
Public members:
Readdata ( ) function accepts the data values and invokes the
calculate function.
Display.
(i) Whatatat finction prints the data on the screen.
(What are the special properties of a constructor?
unit-III
Q6. (a) How can a data member and member function present in public mode in classee
exe accessed througl
(b) Create class compLex and overload binary + operator to add objects
(6)
Q7. Define an inheritance and its advantage? Explain the types of $\begin{aligned} & \text { (2.5+10 } 12.5) \\ & \text { inheritance. }\end{aligned}$

- unit-rv

UNIT-V.
Unerram
Q8. (a) What do you mean by generic program ming
the any two different types of variabies using function templatate
(b) Create a class Stack that throws Overflow and Underflow exceptions. (b) Create a class Stack that throws Overflow and Underflow exceptions.

Q9. (a) Explain the following terms. $\begin{aligned} & \text { (i) } \\ & \text { (i) secting } \\ & \text { (etine }\end{aligned}$

-
$\qquad$

