Seat No. ☐☐☐☐☐

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कण - 038

## COMPUTER SCIENCE PAPER - II : CS - 242
## Programming in C++ - II
### (New) (24246)

P. Pages : 3

Time : Two Hours                                      Max. Marks : 40

Instructions to Candidates :
1. Do not write anything on question paper except Seat No.
2. Answersheet should be written with blue ink only. Graph or diagram should be drawn with the same pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. All question are compulsory.

**1.**     Attempt **any eight.**                                            **8**

a)   A class can be derived from another derived class, which is known as.......
   i)   Single inheritance         ii)   Hybrid inheritance
   iii) Multiple Inheritance       iv)   Hierarchical inheritance.

b)   A class can contain objects of other classes known as ........
   i)   Containership              ii)   Base class
   iii) Derived Class              iv)   Multiple class.

c)   A pure virtual function equated to...........
   i)   1                          ii)   -1
   iii) 0                          iv)   2.

d)   .......... function handle single character at a time.
   i)   write( ) / read( )         ii)   put( ) / get( )
   iii) gets( ) / puts( )          iv)   putche( ) / getche( ).

e)   C++ supports a mechanism known as ....... to implements the concepts of generic prog.
   i)   Inheritance               ii)   Polymorphism
   iii) Templates                 iv)   'This' Pointer.

f)   The keyword ........ is used to prepare a block of statement which may generate exception.
   i)   Throw                     ii)   Try
   iii) Catch                     iv)   Virtual.

g) STL has how becomes the part of the ---------
   i)   C++                    ii)   C
   iii)  ANSI                  iv)   C#

h) In multilevel inheritance, the ------- are executed in the order of inheritance.
   i)   constructor            ii)   destructor
   iii)  pointer               iv)   this pointer.

i) We can get the address of variable by using operator ---------
   i)   *                      ii)   &
   iii)  ?                      iv)   =

j) ---------- function write and read block of binary data.
   i)   print( ) / scaf( )     ii)   fprint( ) / fscaf( )
   iii)  write( ) / read( )     iv)   put( ) / get( )

**2.**     Attempt **any four.**                                    8
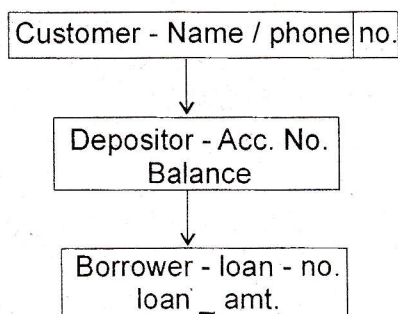
a)   State the advantages of Inheritance ?

b)   Define virtual function ?

c)   What is function template ?

d)   What are file streams and their various types ?

e)   What is generic programming ?

f)   What is STL ?

**3.**     Attempt **any two.**                                     8

a)   Write the programs to implement inheritance as shown in fig.
     Assume suitable data merger function to accept and display function.



b)   Explain the concept of 'this' pointer and write the uses of pointer ?

c) Explain diff. blocks used as exception handling ?

4. a) Attempt **any two.** 6

    a) What is Class Template ? Write the class template to find largest of three no. ?

    b) Explain in brief file pointer and manipulators ?

    c) Define container ? Explain in brief the classes of container ?

  b) What is polymorphism ? 2

5. Attempt **any one.** 8

    a) i) Write a programs to count number of lines in a file.

      ii) Describe the various file mode operation available ? Give the diff. between ios :: ate and ios :: app ?

    b) i) State the application of container classes.

      ii) Write the function template to find maxi. of two numbers ?

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