Seat Number

Nov-2015

कांजी - 009

COMPUTER SCIENCE PAPER - II : CS - 242
Programming in C++ - II
(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. Graph or diagram should be drawn with the black ink pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. All questions are compulsory.
5. Figures to the right indicate full marks.

1. Attempt **any eight**. 8

a) ------- is the class whose properties are inherited by another class.
   i) Derived class ii) Base class
   iii) Second class iv) Sub class

b) In ---------- there is only one super class and only one sub class means that they have one to one communication between them.
   i) Single Inheritance ii) Multiple Inheritance
   iii) Multilevel Inheritance iv) Hierarchical Inheritance

c) ---------- are usually used to deallocate memory & do other cleanup for a class object & it's class members.
   i) Constructor ii) Containership
   iii) Virtual function iv) Destructor

d) Each object can determine it's own address by using the "------" Keyword.
   i) public ii) private
   iii) this iv) goto

e) When we use the same function name in both the base and derived classes, the function in base class is declared as------
   i) Overloading ii) Virtual
   iii) Operator iv) Base

f) A --------- block identifies a block of code for which particular exceptions will be activated.
   i) try ii) throw
   iii) catch iv) Handle

g) Of stream represents--------
   i) Input file stream
   ii) Read file stream
   iii) Pointer stream operation
   iv) Output file stream

h) ios:: app represents.
   i) Open a file for reading
   ii) Open a file for writing
   iii) Open file in Append mode
   iv) Binary file

i) We can use ---------- to create a family of classes that operate on a type.
   i) Class templates ii) Function template
   iii) Object template iv) Base template

j) Stack, queue, priority- queue belongs to
   i) Sequence containers ii) Associative containers
   iii) Derived containers iv) My containers

2. Attempt **any four**. 8

a) Explain Ambiguity in multiple inheritance.

b) Write a specification for a class called dog that contains two data members: a string called breed & an int called age (Don't include any member functions.)

c) Explain the followings.

   i) Ifstream ii) Fstream

d) Give the advantages of templates.

e) What is visibility mode of a classes?

f) Write a short note on STL.

3. Attempt **any two**. 8

a) Write a rules for virtual functions.

b) Write a program for testing multiple catch statement.

c) How file is opened? Explain various mode of files.

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

i) Using template function find smallest number from given three numbers.

ii) What is containers? Explain Associative containers.

iii) Explain multilevel inheritance.

b) Explain following file stream classes. 2

i) Filebuf ii) Fstreambase.

5. Attempt **any one**. 8

a) i) Explain Exception handling mechanism.

ii) Write a program to implement Hybrid inheritance.

OR

b) i) Explain constructors in Derived classes.

ii) Write a program in C++ to store records of 10 students in file student.dat using object of class student. Each record contains name, roll number & total marks, modify the record, if total is less than 50.

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