Seat Number

Oct-2016

0234

काळ - 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.

1. Attempt **any eight.** 8

a) this pointer
   i) implicity points to an object
   ii) can be explicity used in a class
   iii) can be used to return an object
   iv) All of the above

b) -------- is the mechanism which allows a class A to inherit properties of a class B.
   i) Inheritance ii) Data abstraction
   iii) Encapsulation iv) Polymorphism

c) What does STL stands for?
   i) Simple Template Library ii) Standard Template Library
   iii) Static type library iv) Single type based library

d) Which of the following statements is correct?
   i) Base class pointer cannot point to derived class
   ii) Derived class pointer cannot point to base class
   iii) Pointer to derived class can not be created
   iv) Pointer to base class can not be created

e) In a program, if there exist a function template with two parameters and normal function say void add (int, int) so add (3, 4) will
   i) Invoke function template body as it is generic one
   ii) Invoke normal function as it exactly matches with its prototype
   iii) Not be called and compiler issues warning
   iv) Not be called and compiler issues ambiguity is calling add()

f) An exception is thrown using keyword in CPP
   i) throws ii) throw
   iii) threw iv) thrown

g) Stream that will be performing both input and output operations must be declared as class.
   i) iostream ii) fstream
   iii) stdstream iv) stdiostream

h) Which function is used to check the current position of an output stream
   i) tell P () ii) tell g ()
   iii) seek P iv) get ()

i) If the derived class is a class then the access specifier is by default.
   i) Private ii) Protected
   iii) Public iv) Any of these

j) ---------- are used for generic programming.
   i) Inheritance ii) Virtual functions
   iii) Template iv) None of these

2. Attempt **any four.** 8

a) Define class template

b) What is Inheritance?

c) What is pure virtual function?

d) What is an exception?

e) List the name & use of classes which perform input & output of characters to / from classes.

f) Name the derived container provided by STL.

3. Attempt **any two.** 8

a) Explain try catch block with example.

b) Explain derived class constructor with example.

c) Explain this pointer with example.

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

i) What is STL? Explain main 3 components of STL.

ii) Give example and explain template with multiple parameter.

iii) What is command line argument? Explain with example.

b) What do you mean by generic programming? 2

5. Attempt **any one.**

a) Write a program in C++ to read a file having alphanumeric data and store alphabetic character in alpha.dat file and numeric character in number.dat file. 8

OR

a) Write a C++ program to implement multiple Inheritance. 4

b) Write a C ++ program to read Employee data (Emp. no, name and designation) and stored it in file Employee.dat. 4

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