Seat Number



COMPUTER SCIENCE PAPER - II (NEW) : 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.

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) A class can inherit the attributes of two or more classes, is known as......
 - i) Multiple inheritance

ii) Single inheritance.

iii) Multilevel inheritance

- iv) Hybrid inheritance.
- b) A class can contain objects of other classes as it's. Members is called......
 - i) Inheritance

ii) Polymorphism

iii) Containership

- iv) Virtual class.
- c) If there is a pointer p to objects of a base class and it contains the address of an object of a derived class, and both classes contain a nonvirtual member function, xyz(), then the statement P→ xyz(); will cause the version of xyz() in theclass to be executed.

i) Virtual base

ii) Nonvirtual derived

iii) Base

- iv) Derived.
- d) A pure virtual function is a virtual function that
 - i) has no body
 - ii) returns nothing
 - iii) is used in a derived class
 - iv) Takes no arguments.

e)	The base class for most stream classes is the class. i) Ostream ii) ios iv) istream	
f)	A C++ stream is i) A flow of data from one place to another. ii) The flow of control through a function, iii) Not associated with a particular class. iv) A file.	
g)	To write data that contains variables of type float to an object of type of stream, you should use i) The insertion operator ii) seekg() iii) write() iv) put()	
h)	 i) It is not taken into consideration write computing the object. ii) It cannot be modified. iii) It cannot be accessed by static member functions. iv) All of the above are true. 	
i)	Which of the following exceptions is thrown when an exception type does not match any catch handler? i) NULL ii) bad-exception iii) failed-exception iv) None of the above.	
j)	Which of the following does not belong to STL? i) Function object ii) Map iii) Dequeue iv) All of the above are part of STL	
Α	ttempt any four.	8
а) Give advantages of inheritance.	
b		
C	Explain basics of Exception handling mechanism.	
C	d) Explain fstreambase file stram class.	
6	e) Explain general format of a function template.	
: 1	f) Write a note on sequence containers of STL.	

2.

3.		Attempt any two.		8
		a)	Explain derived constructor function with example.	
		b)	How exception throwing mechanism works in C++.	
		c)	Give different file pointer manipulation functions.	
4.	a)	Att	empt any two.	6
		a)	Explain class templates with multiple parameters.	
		b)	Explain STL components with suitable diagram.	
		c)	Explain Hierarchical inheritance with suitable diagram.	
	b)	Со	mpulsory question.	2
		Wh	nat is abstract class?	
5.		Att	empt any one.	8
	a)	i)	What is command line argument? Explain with example.	
		ii)	What is multilevel inheritance? Write a program in C++, to implement multilevel inheritance.	
	b)	i)	Explain the purpose of following functions with example. i) put() ii) get() iii) read() iv) write()	
		ii)	10 records of employees are stored in file emp.dat. Each record contains name, employee number & basic salary. Write a program to read all these records from the emp. dat. Store particular records where salary is greater than 10,000 in file empl.dat. (Hint: you may use read() & write() functions.)	
