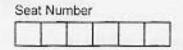
8





COMPUTER SCIENCE PAPER - II : CS - 242 Programming in C++-II

(24246)P. Pages: 3 Time: Two Hours Max. Marks: 40 Instructions to Candidates: 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. All questions are compulsory. Figures to the right indicate full marks. 1. Attempt any eight. a) ----- is the class whose properties are inherited by another class. i) Derived class Base class ii) iii) Second class iv) Sub class In ----- there is only one super class and only one sub class means that they have one to one communication between them. Single Inheritance Multiple Inheritance ii) 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. 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----ii) Virtual Overloading

iii) Operator

iv) Base

| | | f) | | eptions will b | | | or code for which particular | |
|-----|----|--|-------------------|---|---------------------------|------------|---|--|
| | | | | try catch | | ii) iv) | throw Handle | |
| | | g) | i) ii) iii) | stream repres Input file stre Read file strea Pointer strea Output file s | eam eam im operatio | | | |
| | | h) | i) ii) iii) | :: app represe Open a file fo Open a file fo Open file in Binary file | or reading r writing | de | | |
| | | i) | | | to crea | ate a | family of classes that operate | |
| | | | i) | a type. Class templa Object temp | | ii) iv) | Function template Base template | |
| 2.5 | | j) | i) | ack, queue, p Sequence co Derived con | ontainers | ii) | longs to Associative containers My containers | |
| 2. | | Attempt any four. | | | | | | |
| | a) | Explain Ambiguity in multiple inheritance. | | | | | | |
| | b) | b) Write a specification for a class called dog that contains two members: a string called breed & an int called age (Don't inc any member functions.) | | | | | | |
| | c) | Explain the followings. | | | | | | |
| | | i) | Ifs | tream | | 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. 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. a) Attempt any two. 6 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 Filebuf i) ii) Fstreambase. 5. Attempt any one. 8 a) i) Explain Exception handling mechanism. Write a program to implement Hybrid inheritance. OR i) Explain constructors in Derived classes. b)

record, if total is less than 50.

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