Sr. No. 7102

Exam. Code: 206602 Subject Code: 4595

M.Sc. Bio-informatics - 2nd Sem.

(2517)

Paper - BI-522: Advance Programming in C & C++ & Visual Basic

Time allowed: 3 hrs.

Max. Marks: 75

Note:-- Section A is compulsory. Each part is of 1.5 marks. Attempt ONE question from each unit of Section B. Each question is of 12 marks.

Section A

- 1. What are the advantages of using an ActiveX controls?
- 2. Briefly explain control structures in visual basic.
- 3. What are Inline Functions? Give an example.
- 4. Give the use of Scope resolution operator.
- 5. What is Function Overloading? List out its advantages.
- 6. What is a Containership? How it is different from Inheritance?
- 7. What is pure virtual function? Give Example.
- 8. What is an abstract class?
- 9. Differentiate between Linked List and Arrays.
- 10. What is a Stack? Discuss operations on Stacks.

Section **B** UNIT-I

Q 1. What is common Dialog Box? How many types of Common Dialog Box are there is	n VB 6.0?
Describe each with suitable example.	12
Q 2.	
a) Describe most important features of visual basic language.	6
b) Explain different types of controls in VB.	6

UNIT-II

Q 3. What the advantages of using object oriented programming? Describe the core concept of object 12 oriented programming in detail.

Q4.

- 6 a) What is a Friend Class? Write a C++ program to implement a Friend Class.
- b) What are Constructors and Destructors? What are the advantages of using Constructor? Whether constructors can be overloaded. Justify your answer through example. 6

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UNIT-III

Q 5. What is Inheritance? Explain different types of Inheritance with example. Discuss ambiguity in multiple inheritance.
 12

Q 6. Write a C++ program to find the volume of cube, cylinder, sphere, cone and rectangular box using function overloading. 12

UNIT-IV

- Q 7. What are virtual functions? Write a program to declare a virtual function. What are the rules associated with virtual function? What are the uses of virtual function? **12**
- Q 8. Write short note on following:
 - a) Polymorphism.
 - b) File handling.
 - c) Abstract Class.

UNIT-V

Q 9. What are data structures? Explain Linear and Non-Linear Data Structures. Q 10.

- a) Five items A, B, C, D and E are pushed in stack one after the other starting from A. The stack is popped four times and each element is inserted in a queue. Then two elements are deleted from the queue and pushed back on the stack. Now one item is popped from stack. What is the popped item?
 3
- b) Perform following operations on stack of size 5

Push(1), Pop(), Push(2), Push(3), Pop(), Push(4), Pop(), Pop(), Push(5) at the end of last operation. What are the total numbers of elements present in stack? 3

c) What are Queues? What are the operations associated with Queue? How it is different from stack? 6

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