

22316

24225

3 Hours / 70 Marks

Seat No.

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- Instructions* –
- (1) All Questions are *Compulsory*.
 - (2) Answer each next main Question on a new page.
 - (3) Illustrate your answer with neat sketches wherever necessary.
 - (4) Figures to the right indicate full marks.
 - (5) Assume suitable data, if necessary.
 - (6) Use of Non-programmable Electronic Pocket Calculator is permissible.
 - (7) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

- | | |
|---|-----------|
| 1. Attempt any <u>FIVE</u> of the following: | 10 |
| <ol style="list-style-type: none">a) Give syntax for class and object.b) Write two properties of static data members.c) Define inheritance and give its type.d) Explain reference and de-reference operator with respect to painter.e) Give syntax and use of fclose() function.f) State use of cin and cout.g) Define destructor with example. | |

P.T.O.

- 2. Attempt any THREE of the following:** **12**
- a) Differentiate between oop and pop.
 - b) Define class student with data members, Roll No., Name, Marks accept and display for five object.
 - c) Explain hierarchial inheritance with example.
 - d) Differentiate between compile time and runtime polymorphism.
- 3. Attempt any THREE of the following:** **12**
- a) Explain the structure of C++ program.
 - b) Explain memory allocation of object in detail.
 - c) Write C++ program to write data into file using file operation.
 - d) Write C++ program to demonstrate use of abstract class.
- 4. Attempt any THREE of the following:** **12**
- a) Write C++ program count no. of words in file.
 - b) Write rules of operator overloading.
 - c) State and describe visibility modes and its effect used in inheritance.
 - d) Write C++ program for copy constructor.
 - e) Write C++ program to check entered no is palindrome or not.
- 5. Attempt any TWO of the following:** **12**
- a) Define pointer operator and address operator with example.
 - b) Write a C++ program to accept array of five elements, find and display smallest number from an array.

- c) Write a C++ program to implement following inheritance: Refer Figure No. 1.

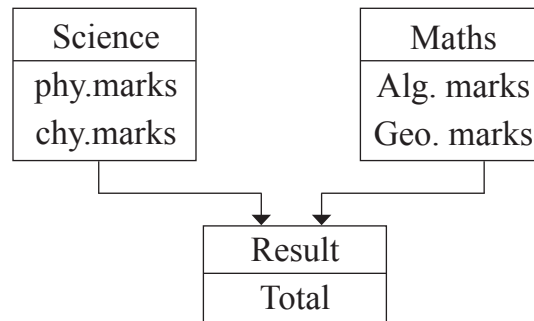


Fig. No. 1

6. Attempt any TWO of the following:

12

- Define and explain rules for virtual function.
 - State the difference between constructor and destructor.
(Any six points)
 - Write a program on Hybrid inheritance.
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