

17432

11718

3 Hours / 100 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 answers with neat sketches wherever necessary.
 - (4) Figures to the right indicate full marks.
 - (5) Assume suitable data, if necessary.
 - (6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. (A) Attempt any SIX of the following :

6 × 2 = 12

- (a) What is use of scope resolution operator ?
- (b) What is pointer ? Give example.
- (c) How user can declare member function outside the class ?
- (d) Enlist types of constructor.
- (e) What is static polymorphism ?
- (f) State different types of visibility mode in inheritance.
- (g) Give syntax of create pointer to object.
- (h) What do you mean by overloaded constructor ?

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(B) Attempt any TWO of the following :

2 × 4 = 8

- (a) What is parametrized constructor ? Explain with example.
- (b) What is multiple inheritance ? What is multilevel inheritance ? What is difference between them ?
- (c) What is destructor ? How destructor is declared ? When destructor is invoked ?

2. Attempt any FOUR of the following :

4 × 4 = 16

- (a) What are the differences between structure and class ?
- (b) What is pure virtual functions ? Write down the rules used for pure virtual function.
- (c) What is base class ? What is derived class ? Give example.
- (d) Write down characteristics of object oriented programming.
- (e) Explain the need of static member function with example.
- (f) What is this pointer ? Explain with example.

3. Attempt any FOUR of the following :

4 × 4 = 16

- (a) Explain different operator used in C++.
- (b) Write a program which implement the concept of overloaded constructor.

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- (c) What is virtual base class ? Explain with example.
- (d) Write a program which overload unary ++ operator by using friend function.
- (e) Explain the derived class access by pointer.
- (f) Explain how to pass object as function argument.

4. Attempt any FOUR of the following :

4 × 4 = 16

- (a) Explain hybrid inheritance with example.
- (b) What is copy constructor ? Explain with example.
- (c) Explain the structure of C++ program.
- (d) What is friend function ? Explain with example.
- (e) What is inheritance ? What is use of inheritance ? Explain.
- (f) Write a program which implement the concept of pointer to array.

5. Attempt any FOUR of the following :

4 × 4 = 16

- (a) Write down rules used for operator overloading.
- (b) What is structure ? How user declare structure ? Give example.
- (c) How to define virtual function ? Give example.
- (d) What is difference between procedure oriented programming and object oriented programming ?

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- (e) Write a program which perform arithmetic operation using pointer.
- (f) What is polymorphism ? Enlist different types of polymorphism. What are the differences between them ?

6. Attempt any TWO of the following :

2 × 8 = 16

- (a) What is function ? What is call by value ? What is call by reference ? What is the difference between them ?
 - (b) What is constructor ? How user can declared constructor in derived class ? Explain with example.
 - (c) Write a program which concate and reverse string by using pointer to string.
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