



HB-3539

Second Year B. C. A. (Sem. III) Examination

March / April - 2018

Object Oriented Programming

Time : 3 Hours]

[Total Marks : 70

Instructions : (1)

नीचे दस्तावेज में निम्नलिखित विवरणों की भरपूर जानकारी पर अवश्य ध्यान दें।
 Fillup strictly the details of signs on your answer book.

Name of the Examination :

Name of the Subject :

Subject Code No. : Section No. (1, 2,.....)

Seat No. :

Student's Signature

- (2) All questions are compulsory.
- (3) Figures to the right indicate full marks.

1 Answer any seven : 10

- (1) Explain seekg() function with an example
- (2) What is object ? Give one example of it.
- (3) State the difference between ios::app and ios::ate mode.
- (4) What is abstract class ? What is use of it ?
- (5) Which method cannot call through an object ?
- (6) What is the use of destructor ? How is it created ?
- (7) Explain pure virtual function.
- (8) What is containership ?
- (9) What is the difference between private and protected visibility modes ?
- (10) List out the advantages of inline function.
- (11) List out the application of object oriented programming.

- 2 Do as directed : 15
- (a) List out memory management operators. Point out the reason why using new is better idea than using malloc(). 8
- (b) Explain different visibility modes with example. 7

OR

- (b) In which circumstances function can be made as friend? Write the advantage of friend function. Demonstrate one example of friend function.

- 3 Do as directed : 15
- (a) What do you mean by hybrid inheritance? Explain how to remove ambiguity in the case of hybrid inheritance? 8
- (b) When we can use virtual base class? How it is different from virtual function? 7

OR

- (c) Differentiate between unary and binary operator overloading.

- 4 Do as directed : (any three) 15
- (a) Explain exception handling with an example.
- (b) What are the different methods to open a file? Explain with proper example.
- (c) What is Manipulators? Explain setprecision() and setiosflags().
- (d) What do you mean by constructor? Explain parameterized constructor with an example.

- 5 Answer the following : (any two) 15
- (a) Write a program to create a class student stores the roll no, class test stores the mark obtained in two subjects and class result contains the total marks obtained in the test. The class result can inherit the details of the marks obtained in the test and the roll no of student class.

- (b) Differentiate between virtual base class and virtual function.
- (c) Write a program to create a file fruits and vegetable which stores the name of the fruits and name of the vegetables file. Use get line function and display the contents of both the file.
- (d) What is truly Object Oriented Programming ? Can we say C++ is truly object Oriented Programming ? Justify your answer.
