

Total No. of Questions : 12]

SEAT No. :

P-780

[Total No. of Pages : 2

[6006]-13

F.Y. M.C.A. (Engineering)

OBJECT ORIENTED PROGRAMMING

(2019 Pattern) (Semester - I) (310903)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Neat diagram must be drawn wherever necessary.
- 2) Figure to the right indicates full marks.

Q1) a) Explain - Need of Object Oriented Programming. [6]
b) Explain the structure of Bottom up approach. [6]

OR

Q2) a) Write down the Syntax and Structure of C++ Programming language. [6]
b) Define comment. Why is it important to write comments in programs? [6]

Q3) a) Write the various operators with example used in C++. [5]
b) Write a C++ program to explain Constructor and destructor. [6]

OR

Q4) a) Describe with examples Inline function and static data member. [5]
b) Write a C++ program to explain the term Array of objects. [6]

Q5) a) Explain the term class in inherited Publicly, Privately and Protectedly. [6]

b) Write a note on overloading and overriding with example. [6]

OR

Q6) a) Differentiate between multiple and multilevel inheritance in C++? [6]
b) We know that a private member of a base class is not inheritable. Is it anyway possible for the objects of a derived class to access the private members of the base class? If yes, how? Remember, the base class cannot be modified. [6]

P.T.O.

Q7) a) Demonstrate with suitable example the use of polymorphism with a Friend function. [6]

b) What is virtual function? Why do we need virtual functions? [5]

OR

Q8) a) Illustrate the concept of dynamic binding with suitable example. [5]

b) Explain the concept of this pointer. [6]

Q9) a) Why templates are used in C++? How many types of templates are there in C++? [6]

b) Write a Program to find Largest among two numbers using function template. [6]

OR

Q10) a) Explain how exception handling mechanism can be used for debugging a program. [6]

b) Write a structure of template in C++. [6]

Q11) a) Discuss the various forms of get() function supported by the input stream. How are they used? [6]

b) What is a file mode? Describe the various file mode options available. [6]

OR

Q12) a) Write a note on - seekg(), tellg(), seekp(), tellp(). [6]

b) Write a program to read a list containing item name, item code, and cost interactively and produce a three column output as shown below. [6]

Item Name	Item Code	Cost
Database	1006	550.95
Java Programming	905	99.70

