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|------------|-----|---|-------------|
|            | (b) | Differentiate object oriented programming and procedural programming and Explain features of object oriented programming. | 07          |
| <b>Q-3</b> |     | <b>Attempt all questions</b>  | <b>(14)</b> |
|            | (a) | What is user defined function? Explain with c++ program to swap two numbers using call by reference.                      | 07          |
|            | (b) | What is operator overloading? Explain unary minus (-) operator overloading with example.                                  | 07          |
| <b>Q-4</b> |     | <b>Attempt all questions</b>  | <b>(14)</b> |
|            | (a) | What is class? Explain access modifier of c++.  | 07          |
|            | (b) | Explain this pointer with suitable example.   | 07          |
| <b>Q-5</b> |     | <b>Attempt all questions</b>  | <b>(14)</b> |
|            | (a) | Explain friend function with example.   | 07          |
|            | (b) | Explain exception handling in C++ with example.   | 07          |
| <b>Q-6</b> |     | <b>Attempt all questions</b>  | <b>(14)</b> |
|            | (a) | List types of inheritance. Explain multilevel inheritance with example.   | 07          |
|            | (b) | What is pure virtual function? Explain virtual function with example.   | 07          |
| <b>Q-7</b> |     | <b>Attempt all questions</b>  | <b>(14)</b> |
|            | (a) | Explain function overloading with suitable example.   | 07          |
|            | (b) | Explain class template and function template with suitable example.   | 07          |
| <b>Q-8</b> |     | <b>Attempt all questions</b>  | <b>(14)</b> |
|            | (a) | Explain File stream classes in C++.   | 07          |
|            | (b) | Explain copy constructor with suitable example.   | 07          |

