D107/P131/CMP503/EE/20180101

Time : 3 Hours   **Marks : 80**

Instructions :

1. All Questions are Compulsory.
2. Each Sub-question carry 5 marks.
3. Each Sub-question should be answered between 75 to 100 words. Write every questions answer on separate page.
4. Question paper of 80 Marks, it will be converted in to your programme structure marks.

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1. Solve any **four** sub-questions.
   a) Explain the Benefits and Applications of OOPs or C++?   5
   b) What is class explain the structure of class?   5
   c) Introduce in brief :   5
      i)   Call By Value
      ii)   Call By Reference
   d) Explain the Public and Private members in class?   5
   e) What is Constructor and Destructors explain with example?   5

2. Solve any **four** sub-questions.
   a) What is an Operator Overloading explain binary operator overloading?   5
   b) Explain the types of Inheritance?   5
   c) What is Hybrid Inheritance?   5
   d) Explain the Virtual Base Classes?   5
   e) What is Nesting of the Classes?   5

3. Solve any **four** sub-questions.
   a) What is virtual function in Polymorphism?   5
   b) Explain the polymorphism in C++?   5
   c) What is stream classes?   5
   d) Explain an opening and closing of the file in C++?   5
   e) What do you mean by Command line Arguments?   5

4. Solve any **four** sub-questions.
   a) Explain the Exception Handling Mechanism?   5
   b) What is the Exception Constructors and Destructors in Exception Handling?   5
   c) What is templates explain the class Templates?   5
   d) Explain the Member Function Templates?   5
   e) What is the Standard Template Library explain the components of STL?   5