B.Tech. (CSE) 4th Semester F-Scheme

Examination, May-2019

OBJECT ORIENTED PROGRAMMING USING C++

Paper-IT-202-F

Time allowed : 3 hours]   *[Maximum marks : 100*

Note :   *Attempt* **five** *questions selecting* **one** *question from each section and* **Question No. 1 is compulsory.**

1.   Write a short note on :

    (a)   What do you mean by dynamic binding ? Explain.   5

    (b)   How does inline function differ from macro processor ? Explain.   5

    (c)   Explain exception handling mechanism.   5

    (d)   Explain copy constructor.   5

Section-A

2.   (a)   What are pre-processor directives ? Why are they used in program ? Explain any two pre-processor directives.   10

    (b)   What are object oriented programming languages ? How it is differ from procedural languages ?   10

3. (a) Explain the concept of reusability with example. 10

    (b) What do you mean by library files? Explain with suitable examples. 10

Section-B

4. (a) What is constructor ? Explain various types of constructors in detail. 10

    (b) How does a C++ structure is differ from C++ classes ? 10

5. (a) Explain the concept of separating interface from implementation. 10

    (b) How dynamic memory is allocated and de-allocated using new and delete operators in C++ ? 10

Section-C

6. (a) What is operator overloading ? Write a program in C++ to overload + operator using friend function. 10

    (b) What is inheritance ? What are different forms of inheritance ? Explain in detail. 10

7. (a) What is polymorphism ? How run time polymorphism is achieved ? Explain. 10

    (b) Write a program in C++ to override base class members in derived class. 10

Section-D

8. (a) Write a program in C++ to create a random access file, writing data randomly to a random access file. 10

    (b) What are function templates ? Explain class template with the help of program. 10

9. Write a short note on : 20

    (a) Stack Unwinding

    (b) Stream Manipulators