

**B.TECH.****THEORY EXAMINATION (SEM-IV) 2016-17
OBJECT ORIENTED PROGRAMMING WITH C++****Time : 3 Hours****Max. Marks : 100****Note : Be precise in your answer. In case of numerical problem assume data wherever not provided.****SECTION – A****1. Explain the following:****10 x 2 = 20**

- (a) Define Generalization.
- (b) What do you mean by Abstract class?
- (c) What do you mean by this pointer?
- (d) Define destructor.
- (e) Explain Polymorphism.
- (f) Define derived attribute.
- (g) Define Inheritance.
- (h) Write two characteristics of OOPs.
- (i) Explain pure virtual function.
- (j) Define Inline function.

SECTION – B**2. Attempt any five of the following questions:****5 x 10 = 50**

- (a) What is copy constructor? Explain with example.
- (b) What is Constructor? Write a program to find the area of the circle using constructor.
- (c) What is function overloading? Explain with a suitable example.
- (d) What is operator overloading? Explain binary operator overloading with an example.
- (e) Compare between object oriented methodology with the procedural methodology.
- (f) Write C++ program for sorting ten integer numbers.
- (g) What are command line arguments? Write a program to finding factorial for a given number using command line argument.
- (h) Define exception handling. How it will work in C++?

SECTION – C**Attempt any two of the following questions:****2 x 15 = 30**

- 3 Explain with a suitable example in C++ of the following-
 - (i) File Operations
 - (ii) Class Template
- 4 Define Inheritance with all types and suitable example.
- 5 **Short notes on the following-**
 - (i) Virtual function
 - (ii) Function Template

