Printed Pages : 1 **Roll No.** | | | | | | | | | | | **CS403**

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

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