

GUJARAT TECHNOLOGICAL UNIVERSITY
Diploma Engineering Sem-VI Examination May 2011
Subject code:361105

Subject Name: Object Oriented Programming

Date:23/05/2011

Time: 02.30 pm – 05.00 pm
Total Marks: 70**Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. English version is Authentic

- Q.1** (a) What is constructor ? List various types of constructor explain any two **07**
 (b) Explain inline function and Scope Resolution Operator **07**
- Q.2** (a) Write a program in C++ to create a complex class which having two complex no $X + iY$ and add the two complex number which is input from the key board. **07**
 (b) Explain pointer and its application with example **07**
- OR**
- (b) Explain friend function with suitable example **07**
- Q.3** (a) List features of Object oriented programming and data hiding **07**
 (b) Explain run time polymorphism with example **07**
- OR**
- Q.3** (a) write a program to find area of circle, rectangle and triangle by using function overloading **07**
 (b) Explain private, public and protected scope of class **07**
- Q.4** (a) Explain NEW and DELETE operator with example **07**
 (b) Explain destructor with example **07**
- OR**
- Q.4** (a) Explain binary operator overloading with example **07**
 (b) Explain command line argument with example **07**
- Q.5** (a) Explain this pointer with example **07**
 (b) write a file handling program to copy one file into other **07**
- OR**
- Q.5** (a) Write a program to sort an array of 10 elements in descending order. **07**
 (b) Explain default argument and reference variable **07**

- પ્રશ્ન-૧** અ) Constructor એટલે શું? તેના પ્રકાર જણાવો. કોઈ પણ બે વિષે જણાવો. **07**
 બ) Inline function and Scope Resolution Operator વિષે વર્ણવો. **07**
- પ્રશ્ન-૨** અ) C++ માં દર્શાવ્યા મુજબનો પ્રોગ્રામ લખો. to create a complex class which having two complex no $X + iY$ and add the two complex number which is input from the key board. **07**
 બ) પોઇન્ટર એટલે શું? તેની એપ્લીકેશન જણાવો. **07**

		અથવા	
	બ	Friend function example દ્વારા સમજાવો.	07
પ્રશ્ન-૩	અ	Object oriented programmingની ફીચર્સ તથા ડેટા હાઇડીંગ સમજાવો	07
	બ	Run time polymorphism ઉદાહરણ સાથે સમજાવો.	07
		અથવા	
પ્રશ્ન-૩	અ	Write a program to find area of circle, rectangle and triangle by using function overloading.	07
	બ	કલ્પસન private, public and protected scope વિષે લખો.	07
પ્રશ્ન-૪	અ	NEW and DELETE operator ઉદાહરણ સાથે સમજાવો.	07
	બ	Destructor ઉદાહરણ સાથે સમજાવો.	07
		અથવા	
પ્રશ્ન-૪	અ	Binary operator overloading ઉદાહરણ સાથે સમજાવો.	07
	બ	Command line argument ઉદાહરણ સાથે સમજાવો.	07
પ્રશ્ન-૫	અ	this pointer ઉદાહરણ સાથે સમજાવો.	07
	બ	write a file handling program to copy one file into other	07
		અથવા	
પ્રશ્ન-૫	અ	10 elements ની array ને ઉતરતા ક્રમમાં ગોઠવવા માટેનો પ્રોગ્રામ લખો.	07
	બ	Default argument and reference variable સમજાવો.	07
