

5. (i) Explain the concept of dynamic allocation with suitable example? (7)
- (ii) Write a program using a try block to detect and throw an exception if the condition "divide by zero" occurs. (8)
6. What is the need of inheritance? Draw a diagram to represent the forms of inheritance. (15)
7. Explain the usage of access specifiers in inheritance and show their visibility when they are inherited as public, private and protected. (15)

Your Roll No.....

Sr. No. of Question Paper : 1119A D

Unique Paper Code : 6332491102

Name of the Paper : Object oriented programming using C++

Name of the Course : B.Voc. (Web Designing)

Semester : I

Duration : 3 Hours Maximum Marks : 90

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Q1. is compulsory
3. From Q2. To Q7. Attempt any **four** questions.

1. (i) Write a C++ program to swap two numbers using pointer (30)

(500)

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- (ii) State use of new operator.
 - (iii) Explain use of friend function with the help of suitable example.
 - (iv) State any four points of differentiation between function overloading and function overriding.
 - (v) Explain the concept of abstract class.
 - (vi) Compare and contrast the variables and constants in C++. What are the rules to be followed for identifiers?
 - (vii) What is the output of the following code?
 - (viii) #include<iostream.h>
 - (ix) #include<string.h>
- ```
void main()
{
 cout<<strlen("Hello, World.\n")<<'\n';
}
```
- (x) What is the output
- ```
#include<iostream.>
void main()
{
    int x=0;
```

- ```
while(x++<5){
 static x;
 x+=2;
 cout<<x<<" ";
}
```
- 2. (i) Compare and contrast for, while and do-while looping statements. (8)
  - (ii) What is constructor? Explain (7)
  - 3. Compare and contrast the procedural programming and object-oriented programming. (15)
  - 4. (i) Write a C++ program involving a virtual function. (8)
  - (ii) Write a C++ program to demonstrate function overloading. (7)