

KENNEDY INTERNATIONAL RESIDENTIAL SCHOOL

Kanuru , Vijayawada-520 007

WEEK-END EXAMINATION-2 PAPER(Outside Delhi) 2010

Time: One Hour

COMPUTER SCIENCE

Max Marks : 30

GENERAL INSTRUCTIONS :

- (i) *All questions are compulsory.*
- (ii) *Programming Language : C++.*

- 1.(a) Why is Binary language often termed as machine language ? Why is machine language required? 2
- (b) Why is *char* often created as integer data type? 1
- (c) Rewrite the following program after removing the syntactical error(s) (if any). Underline each correction. 2
- ```
#included<iostream.h>
int main()
{ First = 10 , Second = 20;
 Jumpto(First ; Second);
 Jumpto(second);
}
void Jumpto(int N1 , int N2 = 20)
{ N1 = N2 + N2
 count<<N1>>N2;}
```
- (d) Give the output of the following program : 2
- ```
int i = 100 , j = 9;
cout<<i/j<<"\n";
```
- (e) Find the Out put of the following program : 2
- ```
int z = 4 , x = 3 , y = 2 , Z;
z+=1;
x = x+1;
y = y-1;
Z = z + x + y;
cout<<Z;
```
- (f) What will be the output of the following code fragement: 2
- ```
int a
cout<<"enter a value"
cin>>a;
if(a > 5)
    cout<<"Five";
else
    cout<<"Not Five";
}
```
- If the input given is (i) 7 (ii) 5 ?

2.(a) Which one condition every C++ program must fulfill? 2

(b) Observe the program segment given below carefully, and answer the questions that follow: 2

```
#include<iostream.h>
#include<conio.h>
int main()
{
clrscr();
float sub1,sub2,sub3,marks,perc;
cout<<"Enter marks obtained in 3 subjects:";
cin>>sub1>>sub2>>sub3;
_____ ; //statement 1
perc = (marks/300)*100;
_____ ; //statement 2
cout<<"Y = Y + 1<<">><<"Y + 1 = Y;
return 0; } //statement3
```

(i) Write statement 1 and statement 2 ?

(ii) What is meant by statement3?

(c) Answer the questions (i) to (ii) based on the following code: 4

```
class Medicines
{ char Category[10];
char Date_of_manufacture[10];
char Company[20];
public:
Medicines( );
void entermedicinedetails( );
void showmedicinedetails( );
};
class Capsules : public Medicines
{
protected :
char capsule_name[30];
char Volume_label[20];
public:
float Price;
Capsules( );
void entercapsuledetails( );
void showcapsuledetails( );
};
class Antibiotics : public Capsule
{ int Dosage_units;
char Side_effects[20];
```

```

int Use_within_days;
public:
    Antibiotics( );
    void enterdetails( );
    void showdetails( );
};

```

- (i) How many bytes will be required by an object of class Medicines and an object of class Antibiotics respectively?
- (ii) Write names of all the members functions accessible from the object of class Antibiotics.
- (iii) Write names of all the member accessible from member functions of class Capsules.
- (iv) Write name of all the data members which are accessible from objects of class Antibiotics.
- 3.(a) Write a program to find the area of a triangle? 2
- (b) Briefly explain the Basic architecture of a computer? 2
- (c) What kind of elements are the following? 13 , 'a' , 4.38925 , "a" , main() 2
- (d) What will be the size of the following constants: '\a' , "\a" , "Reema\s" , '\ ' ? 2
- (e) State true or false 3
- (i) An identifier can start with the underscore "_".
- (ii) An identifier in C++ can begin with digits or letters
- (iii) All special characters are allowed in C++ identifiers.
- (iv) Single character constants in C++ have type int.
- (v) Input/Output facilities are not defined with in C++.
- (vi) A megabyte is about 1 million bytes.

By

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