

Sample Paper - III
Subject – Computer Science

Time: 3Hours

Maximum Marks: 70

Note. (i) All questions are compulsory.

Q.No.1

- a. Define Analog and Digital Computer
- b. why analytical engine often called the pioneer computer.
- c. what are the different types of printer. Explain in brief
- d. What is the difference between copying and moving files and folders
- e. What functions are performed by an operating system as a resource manager

Q.No.2

- a. Define the term ASCII and ISCII.
- b. What are the different Data representation schemes
- c. Explain different types of RAM
- d. What do you mean by ports. Explain in brief all types of ports 4
- e. Why primary memory is termed as '**destructive write**' memory but 'non-destructive read' memory
- f. Explain the different features of OOP. 3

Q.No.3

- a) Find the output of the following program. 3

```
#include<iostream.h>
void Withdef(int HisNum=30)
{
    for(int I=20;I<=HisNum;I+=5)
        cout<<I<<" ";
    cout<<endl;
}
void Control(int &MyNum)
{
    MyNum+=10;
    Withdef(MyNum);
}
void main()
{
    int YourNum=20;
    Control(YourNum);
    Withdef();
    cout<<"Number="<<YourNum<<endl;
}
```

- b. void main()

```
{
    char *NAME="a ProFiLe!";
    for(int x=0;x<strlen(NAME);x++)
        if(islower(NAME[x]))
            NAME[x]=toupper(NAME[x]);
    else
```

```

    if(isupper(NAME[x]))
        if(x%2!=0)
            NAME[x]=tolower(NAME[x-1]);
        else
            NAME[x]--;
        cout<<NAME<<endl;
}

```

c. How Many time the following code will be executed

```

int i = 1 ;
i= i - 1 ;
while(i)
{
    cout<<"it's a while loop";
    i++ ;
}

```

d. What is difference between Actual parameter and Formal parameter? Give an example in C++ to illustrate both type of parameters.

e. Explain different jump statements with suitable example.

f. rewrite the following code using do-while loop

```

int i ;
for(i=0;i<10;i++)
{
    cout<<i; i++ cout<<i;
}

```

g. identify the error(s) in the following code fragment

```

char ch; int v=0,o=0;
cout<<"enter character";
while ((ch>='A' && ch<='Z')|| (ch>='a' && ch<='z'))
{
    switch(ch) {
        case 'a':
        case 'e':
        case 'i':
        case 'o':
        case 'u':
        case 'U': ++v; break; default : ++o;
    }cout<<v;<<" "<<o;
}

```