

2 JUL 2015

Atomic Energy Central School, Kakrapar
Annual Examination, 2014-15



Class: XI

Subject: COMPUTER SCIENCE (083)

Time allowed: 3 hours

Maximum Marks: 70

Instructions:

- i) Some questions are having OR options, choose only one and specify the selected one clearly in the answer sheet.
- ii) Please check that this question paper contains 5 questions in 4 pages.
- iii) Please write down the proper serial number of the question before attempting the answer.

- Q.No. (a) Compare the 2nd and 3rd Generation computers. [2]
1. (b) Explain the CPU Scheduling techniques of operating system. [2]
- (c) What is a Page? Explain the page memory management? [2]
- (d) Write steps to search a file with extension .3gp by using Windows O/s. [1]
- (e) Write a short note on any one of the following: [2]
- i) File Management ii) Physical IOCS iii) Round Robin Scheduling
- (f) Give the Classification of Digital Computers. [2]

Q.No. (a) Give the output for the following: (Ignore the header file etc.)

2. (i) #include<iostream.h> [3]

```
void main()
{ int a, b, c;
  a=b=10;
  c=++a*2 - b--;
  b= a++ - (c++ - 3); a= c-- * 2;
  cout<< "A= "<<a<<" B= "<<b<<" C= "<<c<<endl;
}
```

(ii) for(int i = 1 ; i<5 ; i ++)

```
{ for(int j = 0; j <= i+1 ; j += 2)
  cout<< j <<" ";
  cout<<"\n";
}
```

 [2]

(iii) char s1[]={"Lesson-9 World's No.-1 King"}; [2]

```
for(int i = 0; s1[i]!='\0' ; ++i)
  if ( s1[i]=='W' || s1[i]=='i')
    s1[i]='@';
  else if ( islower (s1[i] ) )
    s1[i]=toupper(s1[i]);
  else if(isdigit (s1[i] ) )
    s1[i]='#';
  else
    s1[i]=s1[i];
cout<< "Modified String =" <<s1<<endl;
```

```
(iv) #include<iostream.h>
void exch (int & x, int &y)
{ int Temp= x+y;
  x = --y + Temp;
  y= Temp + ++x;
}
void main()
{ int a=120, b=60;
  exch(a, b);
  cout<<a<<" "<<b<<endl;
}
```

[2]

(b) Rewrite the following program after removing all errors, make underline each correction.

[2]

```
#include<iostream.h>
Fx(int a, int b)
```

```
{ int c;
  c= sqrt((a+b)*2);
  retun(c);
}
void main()
{ int x,y;
  cin>>x>>y;
  z= Fx(x,y);
  cout<<z;
}
```

(c) Define the scope and life time of a variable in C++?

(d) Mark/Write the precedence order or priority number for each operator present in the following expression, according to the C++ operators' precedence order:

$A*B+D/2-E$

(e) Write the output of the following statements:

(i) $0 \ || \ (0 \ \&\& \ -5) \ || \ -1 \ \&\& \ 0$

(ii) $(5>=5) ? a = 10 *5 : (6/4 == 1) ? b=50 : b=20;$

Q.No. Solve the following Questions using C++:

3. (a) Explain the Increment Operators used in C++, with suitable examples.

(b) Explain the various token used in C++?

(c) Define the use of comment line, explain with syntax & examples?

(d) Write a short not on any one of the following:

(i) goto statement (ii) Printers (iii) Ports

(e) Explain the type of errors occur in C++ programs, with examples?

