Quarterly Examination 2017-2018

Std. : X **Full Marks : 100**

Subject : COMPUTER APPLICATIONS **Time : 2hrs.+15mins.**

Section A (40marks)
(Attempt all questions)

1) Answer following question **(10 marks)**

a) Principles of OOP ? (2)

b) What is a expression ? (2)

c) Why is class known as object factory (2)

d) what is the value of ((5/0.0)-(5/-00.0)) ? (2)

e) Scanner class belong to which package ? (2)

2) Write output of the following : **(5x2=10)**

a)
```
for(int x=15;x>l;x– =2)
{
if(x>10)
System.out.print(++x);
else
System.out.print(--x);
}
```

b)
```
int x=10;
x+= --x+x++ + ++x;
```
find the value of x

c)
```
when a=4;
a/= a++ + --a + a - -
```

d)
```
char var='z';
var=(var=='a')?var:'a';
System.out.print(var);
```

e)
```
int a=10, c=0;
while (a!=0)
{
a--;
if(a==5)
continue;
c++;
}
System.out.print(c);
```

3) Write expression for the following : **(2x5=10)**

a) $a=0.05-2y^3 / x-y$

b) $d=(a+b)^n/\sqrt{3}+b$

c) write output of following

```
String s="kerala samajam";
int p=s.indexOf('a');
System.out.print(p);
System.out.print(p+s);
```

d)
```
String s="Benetton";
System.out.print(s.indexOf(s.charAt(4)));
```

e) write the result of

```
x-y+x/y(Math.pow(x,2));
System.out.println(x);
```

4) Write 2 difference among following : **(2x5=10)**

a) = = and equals();

b) rint and random functions

c) if else and ternary

d) Boolean literal and character literal

e) class and object

(SECTION-B)

ANSWER ANY 4 QUESTION (15x4 = 60)

1) Write programs to accept a sentence from the user and print largest word.

Input - we are good

Output - good

2) Write a program to accept an option from the user among 1 to 3 and print the patterns as per option entered

If option is 1	If option is 2	If option is 3
1	666666	12345
22	55555	12345
333	4444	12345
4444	333	12345
55555	22	
	1	

3) Write a menu driven program using switch to accept an option from the user among 1 or 2 and do as per option entered

If the option is 1 accept any word and print it in palindrome form Input- god Output- goddog

If the option is 2 accept a number and check its perfect number or not

Input - 6

Output - 6 is a perfect number

4) Write a program to print all palindrome numbers between 100 to 1000.

5) Write a program to accept a sentence in upper case and convert first alphabet of each word in lower case.

Input — KASHMIR BELONGS TO INDIA

Output — KASHMIR bELONGS tO iNDIA

6) Write a program to accept any one option from the user between 1-3 and solve series as per option entered by the user

if option is 1 solve s=(a+l)/3 +(a+2)/5 +(a+3)/7..... till n

if option is 2 solve s=2!+4!+6!.....till n!

if option is 3 solve s=2/3-4/5+6/7-8/9+.....till n