

Computer Exam (X)

Time 1:00 hour
M. Marks 50 marks

Section A

Q1. a. Name two reserved words which are not keywords.

≠ (b) Name any two built in packages of Java

(c). Write the use of following operators in Java:

(i) . (dot) operator

(ii) . new operator

(d). Explain block with example.

(e). What are time delay loops. - empty loop (nothing in body is executed) [10]

Q2. a) Find the value of K after execution of the statement

$$K = 1000 + (500 > 1500) ? 18 : 12; \quad [1]$$

(b). If $z = 10$, find the value of Q in the expression

$$Q = (5 * ++z) \% 4; \quad [1]$$

(c). Display the output of following code:

```
String str = "ABCDXYZ";
```

```
char ch1 = str.charAt(9/2)
```

```
int asc = ch1;
```

```
S.o.pln((char)asc);
```

[2]

(d). Give output:

```
class Test
```

```
{ void value()
```

```
{ int l = 3, k = l;
```

```
do
```

```
{ l++; } while (l < 0);
```

```
System.out.println(k + "t" + l);
```

[2]

(e). Write the output of the following

```
class abc
```

```
{ int value()
```

```
{ return 50; }
```

```
void result()
```

```
{ int a = value();
```

```
S.o.pln("a = " + a + " ");
```

```
a = value();
```

```
S.o.pln(a);
```

f). Give output

int a = 10, b = 20;

b += b++ - ++a + b;

S.o.p.r ("b=" + b);

S.o.p.r ("a=" + a);

Section B:

Attempt all 3 programs

Q 3. Write a program in Java to calculate & print the following series depending on user's choice

(a) $1 - 3 + 5 - 7 + \dots - 23$

(b) $1 + \frac{x^3}{4} + \frac{x^6}{7} + \frac{x^9}{10} + \dots + \frac{x^{18}}{19}$

value of x to be entered by the user

Q 4. Write a program to store the following data in arrays:

DAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY
MAXT	39	37	36	34
MINT	32	31	29	27

ii) Search for maximum temperature & print the corresponding day.

iii) Print the day having minimum temperature after search.

Q 5. WAP in Java to define a class Book as per the following

Data members

name : name of book

cost : cost of one book

n : number of copies of the book

amt : calculated cost

Member functions:

inputData() : to accept name, cost & number of copies purchased

displayData() : to display the details along with calculated cost

void process() : to calculate cost of 'n' books. The cost of the decreases by 10% if the no. of books purchased above 25

Call the above functions from the main()