

Quarterly Examination - 2018-19

COMPUTER APPLICATIONS

Class : IX

Time : 2 Hrs. 15 mints

Full Marks : 100

(Section A - Compulsory)

- I. a. Define following (2x7=14)
- i) Abstraction
 - ii) Encapsulation
- b) What are methods?
- c) Write any 4 characteristics of OOP.
- d) Name 2 types of java program
- e) What is IDE?
- f) What are the default value of int and float?
- II. Write difference between the following (2x5=10)
- a) Object and class
 - b) Source code and object code
 - c) // and /* */
 - d) JBC and JVM
 - e) If and ternary
- III. Write output of the following (2x8=16)
- a)

```
Svstern.out.println ("Tag Heuer");  
Svstem.out.print("Rolex");  
System.out.println("Bentlev")  
System.out.print("Rado");
```
 - b) Write a function display() which gives output
PRIVATE JETS are very expensive.

c) Evaluate value of n where p=5 ,q=19

int n =((p-q)>(q-p))?10:6;

d) m=4, n=2

int p= -- m*2 +n -- +2

e) a=10, b=4

int c=(a++/2 + -- b%2) + 4

f) Explain the difference between : val=3 and val == 3.

g) System.out.print(Math.ceil(4.1)+Math.floor(4.9));

h) Write expression for $\sqrt{m^2 + n^3/2}$

(SECTION - B) (15x4=60)

(Answer any 4)

1) Write a program to calculate Tax to be paid by an employee as per given conditions:-

Taxable income (TI)	Income tax in Rs.
Does not exceed 160000	Nil
Greater than equals to 160000 and less than 350000	10% on more than 160000
Greater than equals to 350000 and less than equal to 650000	20% on more than 350000 + 34000
More than 650000	30% on more than 650000 + 60000

In this program the user enter Taxable income. Print the final tax person has to pay.

2) Write a program to create a class check

Data members - int a, b, c.

accept()- It will accept 3 numbers from the user

maximum()- It will print maximum number among the entered 3 numbers.

minimum()- It will print minimum number among the entered 3 numbers.

3) Write a program to accept a decimal value between 0 to 5 -as rating given by the viewer. Print the message based on rating as per table below.

Rating	Message to be displayed
0.0 to 2.0	Flop
2.1 to 3.4	Semi hit
3.5 to 4.5	Hit
4.6 to 5.0	Super hit

4) Write a program to accept an option between 1 and 2.

If user enters 1 find area of circle where

AOC = πr^2

If user enters 2 find area of rectangle where

AOR = l*b

If user enters 3 find area of square where

AOS = s*s

Here the value of option, r, l, b, s will be entered by the user.

5) Write a program to accept a number from the user and print its last digit in words

Example :- Enter - 265 output: Five

Enter:- 786 output:- Six

6) a) Write a program to accept a number and check it's a triple digit number or not.

(Using ternary operator)

b) Write a program to accept an alphabet and check whether it is lower or upper case alphabet.

(Using ternary operator)