

Sample Paper-III

PERIODIC TEST - 1

CLASS – XI

SUBJECT - INFORMATICS PRACTICES

Time : 1 Hrs 30 Mins

Max marks : 50

- Q1. (a) Write any four features of Python. 2  
(b) What are the two ways to use Python interpreter? 2  
(c) Write any four basic numeric data types used in Python. 2  
(d) Write a program that asks two people for their names; stores the names in variables called Name1 and Name2; says hello to both of them 2  
(e) What are the rules for naming an identifier. 2
- Q2. (a) What is comment? Which operator is used to write comment in Python? Give example. 2  
(b) Write any two-assignment statement to assign float and string value. 2  
(c) What are different arithmetic operators used in Python? 2  
(d) Write the precedence of operators used in Python. 4
- Q3. (a) Write following arithmetic expressions using operators in Python: 4  
(i)  $C = \frac{a+b}{2a}$   
(ii)  $x = a^3 + b^3 + c^3$   
(iii)  $A = \pi r(r + h)^2$  (iv)  $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$   
(b) Evaluate the following expression with precedence of operator: 2  
 $X = 2 * 3 / 5 + 10 // 3 - 1$   
(c) Explain if...else statement with the help of an example. 3  
(d) Write statement in Python to find absolute value of -100. 1
- Q4. (a) Write a program to find maximum of 3 numbers using nested if..else statement. 3  
(b) Write a program to input values for Principle, rate and Time and calculate compound interest. 3  
(c) Write a program to input age of a person and print message "Eligible to Vote" if age is more than 18 otherwise print message "not eligible to Vote". 2  
(d) Write a program to check whether the entered number by user is even or odd. 2
- Q5. (a) Find the output : 2

```

x, y =10, 15
if (x >= y):
    z = x + y
else:
    z = x -y
z = z ** 2
print "result =", z

```

(b) Rewrite the following program after finding and correcting syntactical errors and underlining it. 2

```

a,b = 0
if (a = b)
    a +b = c
print z

```

(c) What will be the output of the following code: 2

```

A = 3 - 4 + 10
B = 5 * 6
C = 7.0/2.0
D = "Hello" * 3
print "Value are :", A, B, C, D

```

(d) Write a program that takes name of student, marks (out of 100) of 3 subjects from user and calculate total marks, percentage and grade as per the following criteria: 4

percentage	Grade
>=75	A
>=60 and <75	B
<60	C