

**PRAGYA GIRLS SCHOOL INDORE**  
**CLASS TEST-I**  
**SESSION 2018-19**  
**SUBJECT – INFORMATICS PRACTICES CODE: (065)**  
**CLASS-XI**

**Time: 1hr**

**M. M: 20**

**Q1. Answer the following questions: -**

**6**

1. Who developed Python Programming Language?
2. Python programming language got its name from which show.
3. What will be the output of the following code?  
`x,y=2,6`  
`x,y=y,x+2`  
`print(x,y)`
4. What is a variable? Give examples.
5. Predict the output:  
`x=40`  
`y=x+1`  
`x=20,y+x`  
`print(x, y)`
6. What are operators and what is their function? Give examples.

**Q2. Answer the following questions: -**

**9**

1. How are keywords different from variable names?
2. Write a program to ask for following as input in different lines.  
Enter your first name, last name, date of birth, month, day and year.
3. Define a function 'Subtract Number(x, y)' which takes in two numbers and returns the difference of the two.
4. Write a script that asks users for the temperature in F and prints the temperature in C.  
(Conversion: Celsius=(F-32)\*5/9).
5. What will be the output of the following?  
a.  $2^{**}5$                       b.  $a=3-4+10$                       c.  $(6+4)*10$
6. Write a program to calculate the simple interest where principal = 4500, rate=5% and time = 3yrs.

**Q3. Answer the following questions: -**

**5**

1. Write a program to calculate the area of a circle, rectangle and triangle using functions.
2. What will be the output of the following? Where a = 5, b= -3, c=25 and d= -10  
I.  $(17 \% 5) == (17 \% 5.0)$                       II.  $87//5$   
III.  $a + b + c > a + c - b * d$                       IV.  $f = (a + b - c) / d$

**PRAGYA GIRLS SCHOOL INDORE**  
**CLASS TEST-I**  
**SESSION 2018-19**  
**SUBJECT – INFORMATICS PRACTICES CODE: (065)**  
**CLASS-XII**

**Time: 1hr**

**M.M: 20**

**Q1. Answer the following questions: -**

**6**

1. What is data connectivity?
2. Expand ODBC and JDBC.
3. Name a function of MySQL used to give the first occurrence of a string2 in string1.
4. Predict the output of the following queries:  
 (i) Select round (29.21), round (32.76);  
 (ii) Select round (29.21, 1) round (32.76, 1);
5. Write MySQL command that will be used to open an already existing database “Library”.
6. Name a function of MySQL which is used to remove trailing and leading spaces from a string.

**Q2. Answer the following questions: -**

**9**

1. What will Class.forName do while loading drivers?
2. What is the difference between executeQuery() and executeUpdate() methods?
3. Predict the output of the following queries:  
 (i) Select 9 mod 2;  
 (ii) Select Concat(‘catch’ , ‘a’ , ‘falling’ , ‘star’);  
 (iii) Select MID(‘BoardExamination’ , 2,4);
4. Table Hospital has 4 rows and 5 columns. What is the Cardinality and Degree of this table?
5. State difference between date functions NOW ( ) and SYSDATE ( ) of MySQL.
6. What does a statement object do?

**Q3. Answer the following questions: -**

**5**

1. (i) Write two examples of DBMS software.  
 (ii) What is meant by NULL value in MySQL?  
 (iii) Table ‘Club’ has 4 rows and 3 columns. Table ‘Member’ has 2 rows and 5 columns. What will be the cardinality and degree of both the tables after adding 2 columns each?  
 (iv) Write a query to round off the value 25565.7765 up to 2 decimal places.  
 (v) Write the output of the query written in (iv) question.
2. Consider the following table named “SOFTDRINK”. Write commands of SQL for (i) to (iv) and output for (v) to (vii).

**Table: SOFTDRINK**

DRINKCODE	DNAME	PRICE	CALORIES
101	Lime and Lemon	20.00	120
102	Apple Drink	18.00	120
103	Nature Nectar	15.00	115
104	Green Mango	15.00	140
105	Aam Panna	20.00	135
106	Mango Juice Bahaar	12.00	150

- (i) To display names and drink codes of those drinks that has more than 120calories.
- (ii) To display drink codes, names and calories of all drinks, in descending order of calories.
- (iii) To display names and price of drinks that have price in the range 12 to 18.
- (iv) Increase the price of all drinks in the given table by 10%.
- (v) SELECT COUNT(DISTINCT(PRICE) FROM SOFTDRINK;
- (vi) SELECT MAX(CALORIES) FROM SOFTDRINK;
- (vii) SELECT DNAME FROM SOFTDRINK WHERE DNAME LIKE “%Mango5”;
- (viii) What is the degree and cardinality of ‘SOFTDRINK’ table.
- (ix) Distinguish between Single Row and Aggregate functions of MySQL. Write one example of each.