

Final Term EXAMINATION (2019-20)**Std : XI****Sub: Informatics Practices (065)****Set A****Time:- 3 hour****M.M:- 70****Instructions: (i) All questions are compulsory****(ii) Answer the questions after carefully reading the question.****(iii) Attempt all the question in sequence.****Q1. Answer the following Questions**

- a) What is System software? Explain OS? 2
- b) Explain Third generation computers and its key features? 2
- c) Distinguish between CPU and ALU 1
- d) Convert 78 into binary number 1
- e) What is cyber Phishing and cyber Farming? 2
- f) What are cookies? How are they used by websites to track you? 2
- g) Write some active protections against viruses, Adware, Spyware 1
- h) Anu wanted to gift his brother a mobile or a wrist watch. So he searched for many Electronics items and wrist watches online. But after that every time he goes online, his web-browser shows him advertisements about Electronics items and wrist watches. 3
 - (a) Why is this happening?
 - (b) How could have Anu avoided them?
 - (c) How can Anu get rid of this now?
- i) What is digital Signature? 1

Q2. ANSWER THE FOLLOWING QUESTIONS

- a) Write two features of Python Language? 1
- b) Who developed Python? 1
- c) What is the role of Indentation in python 2
- d) What are keywords? Can keywords be used for identifier? 2
- e) Explain term operator and name its various categories 2
- f) Convert 10010 in to decimal System 1
- g) Write code to swap values of x , y here x=18, y=10 2
- h) What is the wrong in following code1:- num=input("number") sqr=num*num 1

Q3. ANSWER THE FOLLOWING QUESTIONS

- | | |
|--|---|
| a) Python code to obtain numbers and print their sum | 2 |
| b) Code to obtain length and breadth of a rectangle and calculate its area | 2 |
| c) Explain term function by exemplify input() and print() | 2 |
| d) Obtain hours from user and convert into minutes and seconds. | 2 |
| e) Obtain a string from user and check it is palindrome or not | 2 |

Q4. Answer the following Questions

- (a) i) Find the output of given** 2

```
a, b= 22, 23
c, b= a*2 , a/2
print( a , b, c)
print(print(a+b))
```

- ii) Output of given each line of code** 2

```
-3%5 = ?
-5 ** 3 = ?
- 5 // 3 = ?
(3** 3) * *2 = ?
```

- (b) Convert given python code in while loop** 2

for a in range(1, 12) :

```
m=2** a-1
print( m, end="" " ")
print()
```

- (c) Find the error in given code and correct the code** 2

```
If n= 0
Print("zero")
elif : n =1
print("one")
elif n = =2 :
print("two")
else
n= 3 :
print("three")
```

- (d) Explain any 2 terms. i) Tuple ii) List iii) Dictionary** 2

Q5. Answer the following questions

- (a) Observe the following table: name CUSTOMER** 7

Column Name	Cust_Id	Cust_Name	Cust_address 1	Cust_address 2	pincode	Cust_phone
Data Type	Number	Varchar	Varchar	Varchar	number	Varchar
Length	7	30	20	30	6	10
Constraints	Primary key	Not null			Default 462030	

- i. Create table Customer as per above table instance chart.
 - ii. Add one column email of data type Varchar and size 30 to the table customer.
 - iii. Modify column email length by 40.
 - iv. Insert two record with relevant information in the table.
 - v. Drop the column email from table customer.
 - vi. Remove the table Customer permanently.
 - vii. Increase salary of employee's records by 10% (Assume table Employee and Column Salary)
- (b) What do you mean by term data type? 1
- (c) Explain following function with examples. (any 4) 2
- (i) substr() (ii) count() (iii) pow() (iv) min() (v) dayofweek() (vi) now()

Q6. ANSWER THE FOLLOWING QUESTIONS:-

- a) Differentiate between * and ** operator in python programming 1
- b) Write code to import module statistics and calculate mean, meadian of given seq=[5,6,7,5,5,9,11,12,23,5] 2
- c) Write method to create 2 D numpy array with 2 examples 2
- d) Observe the 2 D Ary table and write output of given 2 examples? 2

4	4	5	6	7
8	9	5	7	4
3	2	1	0	8
5	30	42	14	10

Example 1 : Ary[:3, 3:]

Example 2:- Ary[1: :2 , :3]

- e) Explain any two Math functions 2
- f) When dictionaries are more useful than List 1

Q7. ANSWER THE FOLLOWING QUESTIONS:-

- (a) Write SQL commands for the following on the basis of given table 'Book' 5

No.	Title	Author	Type	Pub	QTY	Price
1	Data Structure	Lipschutz	DS	McGraw	4	217
2	Computer Studies	French	FND	Galgotia	2	75
3	Advanced Pascal	Schildt	PROG	McGraw	4	350
4	Guide Network	Norton	OS	BPB	3	175

- i. Select all the OS type published by BPB from Book.
- ii. Display a list of all books with price more than 130
- iii. Display all the books whose price in range of 100 to 200 in descending order of Pub.
- iv. Combine title and author values of all the records.
- v. Display a list of all books which are either McGraw or Galgotia publication.