## **EDUCATALYSTS**

**PYTHON Sample paper** 

### SESSION ENDING EXAM SAMPLE PAPER-I CLASS XI

IPUTER SCIENCE	
	Max Marks: 70
ngle line.	1
	1
tructs of Python	1
of NAND gate.	2
Example	2
nary to include the list of	following countries
	2
New Delhi	2
New Delhi Islamabad	2
	2
Islamabad	2
Islamabad Colombo	2
Islamabad Colombo	2
Islamabad Colombo Dhaka	2
	egle line.  tructs of Python  of NAND gate.  Example

- (c) Write pseudo-code / flowchart to input the year and to test and display whether the given year is leap year or not? 3
- (d) Write python program to calculate area of circle. The radius being the input. 2
- (e) Given the following python code what values are printed as output? 2

def afunc(B):

While(I in a):

Print ""Happy"\*\*i

B=B%2	
Print B	
A=2	
afunc(A)	
afunc(A+5)	
Print A	
Q3: a) Is python a compiled or an interpreted language?	1
b) Differentiate between compiler and interpreter.	1
c) Write a short note on string constructs in python.	2
d) What are the benefits of using cloud computing (any two)?	2
e) List some common datatypes used in python.	1
Q 4: Answer the following questions-	
(a) What is the function performed by len() and reverse() in the list module.	2
(b) Find error in the given SQL code: (Consider the table: ADM )	1
insert into values {"admin","write"};	
Q5: Answer the following Questions:	
(a) Convert:	2
A) $(1234.56)_{10} = (?)_{16}$	
B) $(476)_8 = (?)_2$	
b) i) What is the role of load balancing in parallel computing?	[2X1=2]
ii) Arrange the following in ascending order of memory capacity:	
TB, Byte, KB, Nibble, PB, MB, GB	1
(c) Define primary key.	1
Q6: Answer the following Questions:	
a) What are the rules for using social networking sites	2
b) What is Cracking? Suggest the ways to protect the computer from cyber a	attack. 2
c) Define eavesdropping and phishing .	2
d) What is cyber bullying. How it is done.	2

#### Q.7 Answer the question based on the table given below:

. -

TABLE: Student

Column Name	Data Type	Size	Constraint
Roll_No	NUMBER	4	PRIMARY KEY
Name	VARCHAR	20	Not Null
Stipend	NUMBER	7	Stipend is greater than 0
Stream	VARCHAR	15	Not Null
Grade	VARCHAR	1	

(i) Write the SQL command to create the above table with constraints.	1
(ii) Insert 2 records with relevant information, in the table student	1
(iii) Display all the records of the table Student.	1
(iv) Delete the Student Whose Roll no is 100.	1
(v) Change the Stream of Student to 'Computer' Whose Roll no. is 536.	1
(vi) Add one column email of data type VARCHAR and size 30 to the table student.	1
Q8: Answer the question based on the table given below:	

TABLE: HOSPITAL

No.	Name	Age	Department	DatoFadm	Charges	Sex
1	Arpit	62	Surgery	21/01/98	300	М
2	Zareena	22	ENT	12/12/97	250	F
3	Kareem	32	Orthopedic	19/02/98	200	М
4	Arun	12	Surgery	11/01/98	300	М
5	Zubin	30	ENT	12/01/98	250	М
6	Ketaki	16	ENT	24/02/98	250	F
7	Ankita	29	Cardiology	20/02/98	800	F
8	Zareen	45	Gynecology	22/02/98	300	F
9	Kush	19	Cardiology	13/01/98	800	М
10	Shilpa	23	Nuclear Medicine	21/02/98	400	F

(a) To list the names all the patients admitted after 15/01/98.	1
(b) To list the names of female patients who are in ENT department.	1
(c) To list names of all patients with their date of admission in ascending order.	1
(d) To display Patient's Name, Charges, Age for only female patients.	1
(e )Find Out the Output of Following SQL Command:-	
<ul><li>(i) Select COUNT(DISTINCT charges) from HOSPITAL;</li><li>(ii) Select MIN(Age) from HOSPITAL where Sex="F";</li></ul>	1 1
Q9 (a) What is the difference between math.abs() and math.fabs()?	
Give Example.	2
(b) What is String? How do you create a string in Python?	2
(c) Write a program to check whether entered string is palindrome or not.	3
(d) Refer the following code and predict the output	[4x1/2=2]
a=[1,2,3] b=[4,5,6]	

```
c=a*b
d=c[0:3]
e=d
a[5]=10
c[1]=20
e[0]=30
(i) Print e (ii) print a (iii) print d (iv) print c
```

e) Write a python program to receive the numbers from user through keyboard until user gives 0 (to end the input process), then the program calculate and display the sum of given odd numbers and even numbers respectively.

[4]

e.g.

if the user gives the following sequence of numbers:

7 5 10 14 3 9 11 12

Then the output should be as follows:

The Sum of even numbers in given input sequence = 36

The Sum of odd numbers in given input sequence = 35

## XI- Computer Science (083) Session: 2018-19

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S. No	Typology of Questions	Very Short Answer (VSA) (1 mark)	Short Answer-I (SA-I) (2 marks)	Short Answer -II (SA-II) (3 marks)	Long Answer (L.A.) (4 marks)	Long Answer (L.A.) (6 marks)	<b>Total</b> Marks
1	Programing in Python (Unit1)	5	10	2	1	-	35
2	CSO (Unit2)	2	4		_		10
3	Data Management (DM-1, Unit 3)	3			-	2	15
4	Society, Law and Ethics (SLE-1)- Cyber Safety (Unit 4)	-	5	-	-	-	10
	Total Marks	10	38	6	4	12	70