



**SHREE VALLABH ASHRAM'S MCM KOTHARI INTERNATIONAL GIRLS'
RESIDENTIAL SCHOOL, KILLA PARDI**

PERIODIC TEST – II, 2018-19

CLASS XIS

COMPUTER SCIENCE (083)

M.M 70; TIME 3 HRS

22/10 /18

Instructions:

- 1) All questions are compulsory
- 2) Programming Language: Python and MySQL

SECTION A (15 MARKS)

- Q1. What is a cross platform software? 1
- Q2. What is Dynamic Typing features of Python? 2
- Q3. From the following, find out which assignment statement will produce an error. State reason(s) too. 1
- (a) Length=450.17
 - (b) !Taylor='Instant'
 - (c) Z=0o98
 - (d) 56thnumber = 3300
 - (e) X=55
- Q4. Find out the error in the following fragments: 1
- (a) print("X="X)
 - (b) else=21-5
- Q5. What are data types? 1
- Q6. Predict the output of the following: 2
- (a) a,b=12,13
c,b=a*2,a/2
print(a,b,c)
 - (b) a,b=12,13
print(print(a+b))
- Q7. What will be the result of the following: 1
- (a) type(6+3)
 - (b) type(6%3)
- Q8. Write the following expression in Python: 2
- (a) $(x-h)^2+(y-k)^2=r^2$
 - (b) $(a^n)^m=a^{nm}$
- Q9. What is entry controlled loop. Mention its example 2
- Q10. Rewrite the following code fragment using while loop: 2
- ```
min=0
max=min
if num<0:
 min=num
 max=0
for l in range(min,max+1):
 sum+=i
```

**SECTION B (40 MARKS)**

- Q11. Predict the output of the following: 2
- ```
for x in range(3):
    for y in range(4):
        print(x,y,x+y)
```
- Q12. Predict the output of the following: 2
- ```
for x in [1,2,3]
 for y in [4,5,6]
 print(x,y)
```
- Q13. Which functions would you choose to use to remove leading and trailing white spaces from a given string. 1

- Q14. What would following expression return? 2  
 (a) "Hello World".upper().lower()  
 (b) "Hello World".find("Wor",1,6)  
 (c) "Hello World".find("wor")  
 (d) "123FGH".isdigit()
- Q15. Suggest appropriate functions for the following tasks: 2  
 (i) To check whether the string contains digits  
 (ii) To capitalize all the letters of the string  
 (iii) To remove all white spaces from the beginning of a string.  
 (iv) To check whether all letters of the string are in capital letters.
- Q16. What will be the output produced by following code fragments: 2  

```
y=str(123)
x="hello" * 3
print(x,y)
x="hello"+"world"
y=len(x)
print(x,y)
```
- Q17. What will be the output produced by following code fragments: 2  

```
x="hello"+"to Python"+"world"
for char in x:
 y=char
 print(y+":",end=" ")
```
- Q18. Given a string S="CARE DIEM". If n is length/2 (length is the length of the given string), then what would following return: 2  
 (i) S[:n]  
 (ii) S[n:]  
 (iii) S[n:n]  
 (iv) S[1:n]
- Q19. What is the result of the given statement: 2  

```
S="987654321"
print(s[-1],s[-3])
print(s[-3:],s[:-3])
print(s[-100:-3],s[-100:3])
```
- Q20. Find the errors: 2  

```
S="PURA VIDA"
S1=S[:5]
S2=S[5:]
S3=S1*S2
S4=S2+'3'
S5=S1+3
```
- Q21. What do you understand by mutability of lists, briefly 2
- Q22. What are list slices? What for can you use them? 2
- Q23. What are the difference between lists and strings? 2
- Q24. Given two lists 2  

```
L1=["this","is","a","List"]
L2=["this",["is","another"],"List"]
```

 Which of the following will cause an error and why  
 (i) L1.upper()  
 (ii) L1[3].upper()  
 (iii) L2[1][1].upper()
- Q25. Create the table Employee table based on the following table: 2

| Column Name | ID  | First Name | Last Name | Dept_ID |
|-------------|-----|------------|-----------|---------|
| Data Type   | Int | varchar    | Varchar   | int     |
| Length      | 8   | 25         | 25        | 8       |

Q26. Write SQL commands for the following on the basis of given table 4

STUDENT:

Table: STUDENT

| No | Name    | Stipend | Stream     | AvgMark | Grade | Class |
|----|---------|---------|------------|---------|-------|-------|
| 1  | Karan   | 400.00  | Medical    | 78.5    | B     | 12B   |
| 2  | Divakar | 450.00  | Commerce   | 89.2    | A     | 11C   |
| 3  | Divya   | 300.00  | Commerce   | 68.6    | C     | 12C   |
| 4  | Arun    | 350.00  | Humanities | 73.1    | B     | 12C   |
| 5  | Sabina  | 500.00  | Nonmedical | 90.6    | A     | 11A   |
| 6  | John    | 400.00  | Medical    | 75.4    | B     | 12B   |
| 7  | Robert  | 250.00  | Humanities | 64.4    | C     | 11A   |
| 8  | Rubina  | 450.00  | Nonmedical | 88.5    | A     | 12A   |
| 9  | Vikas   | 500.00  | Nonmedical | 92.0    | A     | 12A   |
| 10 | Mohan   | 300.00  | Commerce   | 67.5    | C     | 12C   |

- Select all the Nonmedical stream students from STUDENT1
- List all names of those students who are in class 12 sorted by Stipend
- List all students sorted by AvgMark in descending order
- Display a report listing names, stipend, stream and amount of stipend received in a year assuming that the Stipend is paid every month.

Q27. Predict the output of the following: 2

a,b,c=[1,2],[1,2],[1,2]

print(a==b)

print(a is b)

Q28. Write a query to display the name, job, title and salary of employee who do not have manager. 1

Q29. What is foreign key commands different from primary key command? 2

Q30. Write a query to give commission of Rs. 500 to all employees who joined in the year 1982(table.Emp) 1

Q31. Write a query for the following: Drop the table Empl. 1

### SECTION C(15 MARKS)

Q32. Write a program to find all the even numbers between 1 to 10 3

Q33. Write a program to count no of blank spaces present in string. 3

Q34. Write a program to convert any string into title case 3

\*\*Hint:

If the statement is "india is great"

Then the statement will be:

India Is Great

Q35. Write a program, which consider a list and find the average of number entered through keyboard until enter '0', if number is Zero then it will quit. Finally displays list of numbers. 3

Q36. Write a program, which consider a list of integers. Create two empty list i..e odd\_lst(list for odd numbers), even\_lst(list of even numbers) and store the numbers in the corresponding list, display them. 3