

केन्द्रीय विद्यालय क्र.-1

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~WINTER BREAK ASSIGNMENT~ **COMPUTER SCIENCE**

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NAME OF THE SUBJECT-COMPUTER SCIENCE/IP

CLASS/SECTION : XI

STRINGS-

Q1 Find output generated by the following code:

```
String Str="Computer"  
Str[-4:]  
Str*2
```

ANS:- uter

'ComputerComputer'

Q-2:- Find output of the following code fragment.

```
x="hello world"  
print(x[:2],x[:-2],x[-2:])  
print(x[6],x[2:4])  
print(x[2:-3],x[-4:-2])
```

Ans: he hello wor ld

w ll

llo wo or

Lists-

Q1. Find the error in following code. State the reason of the error.

```
aLst = { '_a':1 , ' b':2, '_c':3 }  
print (aLst['_a','b'])
```

Ans: The above code will produce KeyError, the reason being that there is no key same as the list ['_a','b'] in dictionary aLst.

Q2. Find and write the output of the following

```
list=['p','r','o','b','l','e','m']  
list[1:3]=[]
```

```
print(list)
```

```
list[2:5]=[]
```

```
print(list)
```

ANS:- [up', 'b', 'l', 'e', 'm']

[up', 'b']

QUESTIONS - GENERAL THEORY

1. What do you mean by scope of variables?
2. Write the type of tokens from the following:
(i) if (ii) roll_no
3. Which of the following are valid operators in Python:
(i) ** (ii) */ (iii) like (iv) | |
(v) is (vi) ^ (vii) between (viii) in
4. Which of the following can be used as valid variable identifier(s) in Python?
(i) 4thSum (ii) Total (iii) Number# (iv) _Data
5. Rearrange the following operators in Highest to Lowest Priority.
% , or, ==, not, =
6. Find the invalid identifier from the followings:
a) File_name, b) sl1, c) False, d) num34
7. Which of the following is not a valid identifier name in Python? Justify reason for it not being a valid name.
a) 5Total b) _Radius c) pie d) While
8. Which of the following is not a valid identifier in Python?
a) KV2 b) _main c) Hello_Dear1 d) 7 Sisters
9. Which of the following are valid operators in Python:
(i) * (ii) between (iii) like (iv) | |
10. Which of the following are valid operator in Python:
(i) */ (ii) is (iii) ^ (iv) like

11. How would you write $xy-4x9$ in python

12. Name the Python Library modules which need to be imported to invoke the following

functions: (i) `ceil()` (ii) `randrange()`

13. What will be the output of the following expression:

```
print(24//6%3, 24//4//2, 20%3%2)
```

14. Evaluate following expressions:

a) $18 \% 4 ** 3 // 7 + 9$

b) $2 > 5$ or $5 == 5$ and not $12 <= 9$

c) $16 \% 15 // 16$

d) $51 + 4 - 3 ** 3 // 19 - 3$

e) $17 < 19$ or $30 > 18$ and not $19 == 0$

15. Which of the following is valid arithmetic operator in Python:

(i) `//` (ii) `?` (iii) `<` (iv) `and`

2. QUESTIONS - ERROR FINDING

- Q1. Find error in the following code(if any) and correct code by rewriting code and underline the correction;-**
- ```
x= int("Enter value of x:")
for y in range [0,10]:
 if x=y
 print(x + y)
 else:
 print(x-y)
```
- Q2. Rewrite the following program after finding and correcting syntactical errors and underlining it.**
- ```
a, b = 0
if (a = b)
a +b = c
print(c)
```
- Q3. Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code.**
- ```
250 = Number
WHILE Number<=1000:
 if Number=>750
 print (Number)
 Number=Number+100
 else
 print(Number*2)
Number=Number+50
```
- Q4. Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code.**
- ```
Val = int(rawinput("Value:"))
Adder = 0
for C in range(1,Val,3)
    Adder+=C
    if C%2=0:
        Print (C*10)
    Else:
        print (C*)
print (Adder)
```
- Q5. Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code.**
- ```
25=Val
for I in the range(0,Val)
 if I%2==0:
 print(I+1):
 Else:
 print [I-1]
```
- Q6. Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code.**
- ```
STRING=""WELCOME
NOTE""
for S in range[0,8]:
    print (STRING(S))
```

Q7. Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code.

```
a=int(input("ENTER FIRST NUMBER"))
b=int(input("ENTER SECOND NUMBER"))
c=int(input("ENTER THIRD NUMBER"))
if a>b and a>c
    print("A IS GREATER")
if b>a and b>c:
    Print(" B IS GREATER")
if c>a and c>b:
    print(C IS GREATER)
```

Q8. Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code.

```
i==1
a=int(input("ENTER FIRST NUMBER"))
FOR i in range[1, 11];
    print(a,"*=", i,"=",a * i)
```

Q9. Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code.

```
a="1"
while a>=10:
    print("Value of a=",a)
    a+=1
```

Q10. Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code.

```
Num=int(rawinput("Number:"))
sum=0
for i in range(10,Num,3)
Sum+=1
if i%2=0:
    print(i*2)
    Else:
print(i*3 print Sum)
```

QUESTIONS - FIND THE OUTPUT

Q1. Find output generated by the following code:

```
p=10
q=20
p*=q//3
q+=p=q**2
print(p, q)
```

Q2. Find output generated by the following code:

```
Str="Computer"
Str=Str[-4:]
print(Str*2)
```

Q3. Find out the output of the Following -

```
x=20
x=x+5
x=x-10
print (x)
x, y=x-1,50
print (x, y)
```

90

Q4. Find out the output of the Following -

```
for a in range(3,10,3):
    for b in range(1,a,2):
        print(b, end=' ')
    print()
```

Q5. FIND OUTPUT OF FOLLOWING

```
x=10
y=5
for i in range(x-y*2):
    print("%",i)
```

Q6. Find output generated by the following code:

```
x="one"
y="two"
c=0
while c<len(x):
    print(x[c],y[c])
    c=c+1
```

Q7. Find output generated by the following code:

```
for i in range(-1,7,2):
    for j in range(3):
        print(i,j)
```

Q8. Find output generated by the following code:

```
string="aabbcc"
count=3
while True:
    if string[0]=='a':
        string=string[2:]
    elif string[-1]=='b':
        string=string[:2]
    else:
        count+=1
        break
print(string)
print(count)
```

Q9. Find output generated by the following code:

```
x="hello world"
print(x[:2],x[:-2],x[-2:])
print(x[6],x[2:4])
print(x[2:-3],x[-4:-2])
```

Q10. Find and write the output of the following python code:

```
Msg1="WeLcOME"
Msg2="GUeSTs"
Msg3=""
for I in range(0,len(Msg2)+1):
    if Msg1[I]>="A" and Msg1[I]<="M":
        Msg3=Msg3+Msg1[I]
    elif Msg1[I]>="N" and Msg1[I]<="Z":
        Msg3=Msg3+Msg2[I]
    else:
        Msg3=Msg3+"*"
print (Msg3)
```
