केंद्रीय विद्यालय क्र.-1

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~WINTER BREAK ASSIGNMENT~

INFORMATICS PRACTICES

सत्र/SESSION-2022-23

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NAME OF THE SUBJECT-COMPUTER SCIENCE/IP

CLASS/SECTION   :   XI

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:- [_p','b','l','e','m']
 [_p','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)
```

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)
```

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)
```

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
```

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)
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)
```

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