

5. Select the correct output of the code : 1
S= "Amrit Mahotsav @ 75"
A=S.partition (" ")
print (a)
(a) ('Amrit Mahotsav', '@', '75')
(b) ['Amrit', 'Mahotsav', '@', '75']
(c) ('Amrit', 'Mahotsav @ 75')
(d) ('Amrit', '', 'Mahotsav @ 75')
21. (a) Given is a Python list declaration : 1
Listofnames=["Aman", "Ankit", "Ashish", "Rajan", "Rajat"]
Write the output of :
print (Listofnames [-1:-4:-1])
(b) Consider the following tuple declaration : 1
tup1=(10,20,30,(10,20,30),40)
Write the output of :
print(tup1.index(20))
24. (a) Write the output of the code given below : 2
def short_sub (lst,n) :
 for i in range (0,n) :
 if len (lst)>4:
 lst [i]=lst [i]+lst[i]
 else:
 lst[i]=lst[i]
subject=['CS', 'HINDI', 'PHYSICS', 'CHEMISTRY', 'MATHS']
short_sub(subject,5)
print(subject)

OR

(b) Write the output of the code given below :

2

```
a =30
def call (x) :
    global a
    if a%2==0:
        x+=a
    else:
        x-=a
    return x
x=20
print(call(35),end="#"")
print(call(40),end= "@")
```

32. (a) What possible output(s) are expected to be displayed on screen at the time of execution of the following program :

```
import random
M=[5,10,15,20,25,30]
for i in range(1,3):
    first=random.randint(2,5)- 1
    sec=random.randint(3,6)- 2
    third=random.randint(1,4)
    print(M[first],M[sec],M[third],sep="#"")
```

(i) 10#25#15 (ii) 5#25#20
20#25#25 25#20#15

(iii) 30#20#20 (iv) 10#15#25#
20#25#25 15#20#10#

2

24. Evaluate the following Python expressions : 2

- (a) `2 * 3 + 4 ** 2 - 5 // 2`
- (b) `6 < 12 and not (20 > 15) or (10 > 5)`

29. What possible output(s) is/are expected to be displayed on the screen at the time of execution of the program from the following code ? Also specify the maximum and minimum value that can be assigned to the variable R when K is assigned value as 2. 2

```
import random
Signal = [ 'Stop', 'Wait', 'Go' ]
for K in range(2, 0, -1):
    R = randrange(K)
    print (Signal[R], end = ' # ')
```

- (a) Stop # Wait # Go #
- (b) Wait # Stop #
- (c) Go # Wait #
- (d) Go # Stop #

33. Write the output for the execution of the following Python code : 2

```
def change(A):
    S=0
    for i in range(len(A)//2):
        S+=(A[i]*2)
    return S
B = [10,11,12,30,32,34,35,38,40,2]
C = Change(B)
Print('Output is',C)
```

- (e) Find and write the output of the following Python code : 2

```
def ChangeVal (M,N) :  
    for i in range (N) :  
        if M[i]%5 == 0:  
            M[i] //= 5  
        if M[i]%3 == 0:  
            M[i] //= 3  
L=[25,8,75,12]  
ChangeVal (L,4)  
for i in L :  
    print(i, end='#')
```

- (f) Find and write the output of the following Python code : 3

```
def Call (P=40,Q=20) :  
    P=P+Q  
    Q=P-Q  
    print(P, '@', Q)  
    return P  
R=200  
S=100  
R=Call (R, S)  
print (R, '@', S)  
S=Call (S)  
print (R, '@', S)
```

- (g) What possible output(s) are expected to be displayed on screen at the time of execution of the program from the following code ? Also specify the minimum and maximum values that can be assigned to the variable End. 2

```
import random

Colours = ["VIOLET", "INDIGO", "BLUE", "GREEN",
           "YELLOW", "ORANGE", "RED"]

End = randrange(2)+3
Begin = randrange(End)+1
for i in range(Begin,End):
    print(Colours[i],end="&")
```

(i) INDIGO&BLUE&GREEN&	(ii) VIOLET&INDIGO&BLUE&
(iii) BLUE&GREEN&YELLOW&	(iv) GREEN&YELLOW&ORANGE&

- (d) Write the output of the following Python code : 1

```
for i in range(2,7,2):
    print(i * '$')
```

- (e) Write the output of the following Python code : 1

```
def Update(X=10):
    X += 15
    print('X = ', X)
```

```
X=20
Update()
print('X = ', X)
```

- (d) Find and write the output of the following python code : 2

```
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
```

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- (e) Find and write the output of the following python code : 3

```
def Changer(P,Q=10):  
    P=P/Q  
    Q=P%Q  
    print P,"#",Q  
    return P  
A=200  
B=20  
A=Changer(A,B)  
print A,"$",B  
B=Changer(B)  
print A,"$",B  
A=Changer(A)  
print A,"$",B
```

Python Output

- (f) What possible output(s) are expected to be displayed on screen at the time of execution of the program from the following code ? Also specify the minimum values that can be assigned to each of the variables BEGIN and LAST. 2

```
import random

VALUES=[10,20,30,40,50,60,70,80]
BEGIN=random.randint(1,3)
LAST=random.randint(BEGIN,4)

for I in range(BEGIN, LAST+1):
    print VALUES[I], "-",
```

(i) 30 - 40 - 50 -	(ii) 10 - 20 - 30 - 40 -
(iii) 30 - 40 - 50 - 60 -	(iv) 30 - 40 - 50 - 60 - 70 -

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- (d) Find and write the output of the following Python code : 2

```
Data = ["P",20,"R",10,"S",30]
Times = 0
Alpha = ""
Add = 0
for C in range(1,6,2):
    Times = Times + C
    Alpha = Alpha + Data[C-1]+"$"
    Add = Add + Data[C]
    print Times,Add,Alpha
```

(e) Find and write the output of the following Python code : 3

```
class GRAPH:
    def __init__(self,A=50,B=100):
        self.P1=A
        self.P2=B
    def Up(self,B):
        self.P2 = self.P2 - B
    def Down(self,B):
        self.P2 = self.P2 + 2*B
    def Left(self,A):
        self.P1 = self.P1 - A
    def Right(self,A):
        self.P1 = self.P1 + 2*A
    def Target(self):
        print "(" ,self.P1.":" ,self.P2,)"

G1=GRAPH(200,150)
G2=GRAPH()
G3=GRAPH(100)
G1.Left(10)

G2.Up(25)
G3.Down(75)
G1.Up(30)
G3.Right(15)
G1.Target()
G2.Target()
G3.Target()
```


- (f) What possible output(s) are expected to be displayed on screen at the time of execution of the program from the following code ? Also specify the maximum values that can be assigned to each of the variables BEGIN and LAST.

2

```
import random
POINTS=[20,40,10,30,15];
POINTS=[30,50,20,40,45];

BEGIN=random.randint(1,3)
LAST=random.randint(2,4)
for C in range(BEGIN, LAST+1):
    print POINTS[C], "#",
```

(i) 20#50#30#	(ii) 20#40#45#
(iii) 50#20#40#	(iv) 30#50#20#

(d) Find and write the output of the following Python code : 2

```
STR = ["90", "10", "30", "40"]
COUNT = 3
SUM = 0
for I in [1,2,5,4]:
    S = STR[COUNT]
    SUM = float (S)+I
    print SUM
    COUNT-=1
```

(e) Find and write the output of the following Python code : 3

```
class ITEM:
    def __init__(self, I=101, N="Pen", Q=10): #constructor
        self.Ino=I
        self.IName=N
        self.Qty=int (Q);
    def Buy(self, Q):
        self.Qty = self.Qty + Q
    def Sell(self, Q):
        self.Qty -= Q
    def ShowStock(self):
        print self.Ino, ":", self.IName, "#", self.Qty
```

```
I1=ITEM()
I2=ITEM(100, "Eraser", 100)
I3=ITEM(102, "Sharpener")
I1.Buy(10)
I2.Sell(25)
I3.Buy(75)
I3.ShowStock()
I1.ShowStock()
I2.ShowStock()
```

Python Output

- (f) What are the possible outcome(s) executed from the following code ? Also specify the maximum and minimum values that can be assigned to variable N. 2

```
import random
SIDES=["EAST", "WEST", "NORTH", "SOUTH"];
N=random.randint(1, 3)
OUT=""
for I in range(N,1,-1):
    OUT=OUT+SIDES[I]
print OUT
```

(i) SOUTHNORTH	(ii) SOUTHNORTHWEST
(iii) SOUTH	(iv) EASTWESTNORTH

CBSE Paper 2016

- (d) Find and write the output of the following python code : 2

```
Numbers = [9,18,27,36]
for Num in Numbers:
    for N in range(1, Num%8):
        print(N,"#",end="")
    print()
```

(e) Find and write the output of the following python code :

3

```
class Notes:
    def __init__(self,N=100,Nt="CBSE"): #constructor
        self.Nno=N
        self.NName=Nt
    def Allocate(self,N,Nt):
        self.Nno= self.Nno + N
        self.NName= Nt + self.Nname
    def Show(self):
        print(self.Nno,"#",self.NName)
s=Notes()
t=Notes(200)
u=Notes(300,"Made Easy")
s.Show()
t.Show()
u.Show()
s.Allocate(4,"Made")
t.Allocate(10,"Easy")
u.Allocate(25,"Made Easy")
s.Show()
t.Show()
u.Show()
```

Python Output

- (f) What are the possible outcome(s) executed from the following code ? Also specify the maximum and minimum values that can be assigned to variable PICKER. **2**

```
import random
PICK=random.randint(0,3)
CITY=["DELHI","MUMBAI","CHENNAI","KOLKATA"];
for I in CITY:
    for J in range(1,PICK):
        print(I,end="")
    print()
```

(i)	(ii)
DELHIDELHI MUMBAIMUMBAI CHENNAICHENNAI KOLKATAKOLKATA	DELHI DELHIMUMBAI DELHIMUMBAICHENNAI
(iii)	(iv)
DELHI MUMBAI CHENNAI KOLKATA	DELHI MUMBAIMUMBAI KOLKATAKOLKATAKOLKATA

- (b) What will be the output of the following python code considering the following set of inputs ? 2

JAYA

My 3 books

PICK2

2120

Also, explain the try and except used in the code.

```
Counter=0
```

```
while True:
```

```
    try :
```

```
        Number=int(raw_input("Give a Number"))
```

```
        break
```

```
    except ValueError:
```

```
        Counter=Counter+2
```

```
        print("Re-enter Number")
```

```
print(Counter)
```

```
# For later versions of python, raw_input
```

```
# should be considered as input
```

CBSE Paper 2015

- (d) Find and write the output of the following python code : 2

```
for Name in ['Jayes', 'Ramya', 'Taruna', 'Suraj']:
```

```
    print Name
```

```
    if Name[0]== 'T':
```

```
        break
```

```
else :
```

```
    print 'Finished!'
```

```
print 'Got it!'
```

- (e) Find and write the output of the following python code : 3

```
class Worker :  
    def __init__(self, id, name) :    #constructor  
        self.ID=id  
        self.NAME=name  
    def Change(self) :  
        self.ID=self.ID+10  
        self.NAME= 'Harish'  
    def Display(self, ROW) :  
        print self.ID, self.NAME, ROW  
w=Worker(55, 'Fardeen')  
w.Display(1)  
w.Change()  
w.Display(2)  
print w.ID+len(w.NAME)
```

- (f) What are the possible outcome(s) executed from the following code ? Also specify the maximum and minimum values that can be assigned to variable NUMBER. 2

```
STRING="CBSEONLINE"  
NUMBER=random.randint(0, 3)  
N=9  
while STRING[N]!='L' :  
    print STRING[N]+STRING[NUMBER]+'#',  
    NUMBER=NUMBER+1  
    N=N-1
```

- (i) ES#NE#IO# (ii) LE#NO#ON# (iii) NS#IE#LO# (iv) EC#NB#IS#

- (b) What will be the output of the following python code ? Explain the try and except used in the code. 2

```
U=0
V=6
print 'First'
try:
    print 'Second'
    M=V/U
    print 'Third',M
except ZeroDivisionError :
    print V*3
    print 'Fourth'
except:
    print V*4
    print 'Fifth'
```