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PB-T1/CSOP/1221/A

08-NOV-2021

PREBOARD EXAMINATION (2021-22) TERM 1-SET A

Max. Marks: 35 **Subject: COMPUTER SCIENCE** Grade: XII Time: 90 Minutes

Name: **Section: Roll No:**

General Instructions:

- *The question paper is divided into 3 Sections A, B and C.*
- Section A, consist of 25 Questions (1-25). Attempt any 20 questions.
- Section B, consist of 24 Questions (26-49). Attempt any 20 questions.
- Section C, consist of 6 case study-based Questions (50-55). Attempt any 5 questions.
- All questions carry equal marks
- This question paper consists of 10 printed pages.
- All answers to be marked in the OMR sheet provided.

Section-A

This section consists of 25 Questions (1 to 25). Attempt any 20 questions from this section. Choose the best possible option.

1.	What will be the value of the following Python expression				
	print(4+3%5*9//(2-5))				
	a. 12	b.	-5		
	c. 5	d.	4		
2.	Which of the following is the truncation division operator in Python?				
	a.	b.	/		
	c. //	d.	%		
3.	What will be the output of the following Python code snippet?				
	for i in [1, 2, 3, 4][::-1]:				
	<pre>print(i,end=' ')</pre>				
	a. Error	b.	4 3 2 1		
	c. 1234	d.	No output		
4.	What will be the output of the following Python code?				

print("abc. DEF".capitalize())

Abc. def a.

ABC. DEF b.

ABC. def

Abc. Def

5. What will be the value of 'result' in following Python program?

list1 = [1,2,3,4]

list2 = [2,4,5,6]

list3 = [2,6,7,8]

result = list()

result.extend(i for i in list1 if i not in (list2+list3) and i not in result)

```
result.extend(i for i in list2 if i not in (list1+list3) and i not in result)
       result.extend(i for i in list3 if i not in (list1+list2) and i not in result)
       print(result)
            [1,3,5,7,8]
       a.
                                                              b.
                                                                   [1,7,8]
            [1,2,4,7,8]
                                                              d.
                                                                   Error
6.
       What will be the output of the following Python code?
       list1 = [1, 3]
       list2 = list1
       list1[0] = 4
       print(list2)
       a.
            [1,3]
                                                              b.
                                                                   [1,3,4]
       c.
            [4,3]
                                                              d.
                                                                   [1,4]
7.
       A = [[1, 2, 3], [4, 5, 6], [7, 8, 9]]
       Which of the following Python statements will result in the output: 6
            A[2][1]
                                                              b.
                                                                   A[1][2]
            A[3][2]
                                                              d.
                                                                   A[2][3]
       c.
8.
       What will be the output of the following Python code?
       f = None
       for i in range (5):
          with open("data.txt", "w") as f:
             if i > 2:
               break
       print(f.closed)
            True
                                                              b.
                                                                  False
       a.
            None
       c.
                                                              d.
                                                                   Error
9.
       Suppose d = {"john":40, "peter":45}, to delete the entry for "john" what command do we use?
            d.delete("john":40)
                                                                   d.delete("john")
                                                              .b
            del d["john"]
                                                              d.
                                                                   del d("john":40)
       What will be the output of the following Python code snippet?
10.
       a={1:"A",2:"B",3:"C"}
       print(a.get(1,4))
       a.
           1
                                                                   A
                                                              b.
            4
       c.
                                                              d.
                                                                   Error
11.
       What will be the output of the following Python code snippet?
       a={1:"A",2:"B",3:"C"}
       a.setdefault(4,"D")
       print(a)
            {1: 'A', 2: 'B', 3: 'C', 4: 'D'}
                                                               b.
                                                                    None
            [1,2,3]
                                                               d.
                                                                   [1,2,3,4]
12.
       What will be the output of the following Python code?
       a={1:"A",2:"B",3:"C"}
       b=a.copy()
       b[2]="D"
       print(a)
```

```
{1: 'A', 2: 'B', 3: 'C'}
                                                                     {1: 'A', 2: 'D', 3: 'C'}
                                                                b.
       a.
       c.
            Error
                                                                d.
                                                                     None
13.
       What will be the output of the following Python code snippet?
       total={}
       def insert(items):
          if items in total:
             total[items] += 1
          else:
             total[items] = 1
       insert('Apple')
       insert('Ball')
       insert('Apple')
       print (len(total))
            3
                                                                     2
       a.
                                                                b.
            1
                                                                d.
                                                                     None
       c.
       What will be the output of the following Python code?
14.
       a=\{i: 'A' + str(i) \text{ for } i \text{ in } range(4)\}
       print(a)
             {0: 'A0', 1: 'A1', 2: 'A2', 3: 'A3'}
                                                                b.
                                                                      {0: 'A', 1: 'A', 2: 'A', 3: 'A'}
             {0: '0', 1: '1', 2: '2', 3: '3'}
                                                                d.
                                                                     Error
       Which of the following functions is a built-in function in python?
15.
                                                                     fabs()
            sqrt()
       c.
            abs()
                                                                d.
                                                                     factorial()
       What will be the output of the following Python function?
16.
       print(float(' -12345\n'))
                -12345.0
                                                                     -12345.0
       a.
                                                                b.
            -12345
                                                                d.
                                                                     Error
17.
       What will be the output of the following Python code?
        def change(i = 1, j = 2):
             i = i + j
            j = j + 1
             print(i, j)
       change(j = 1, i = 2)
            1 2
                                                                     22
       a.
                                                                b.
            32
                                                                d.
                                                                     33
18.
       What will be the output of the following Python code?
       def fun1(k):
          k[0] = 1
       q = [0]
       fun1(q)
       print(q)
            [0]
                                                                     [1]
       a.
                                                                b.
            [0,1]
                                                                     [1,0]
19.
       What will be the output of the following Python code snippet?
```

print('ab cd-ef'.title())

```
Ab cd-ef
                                                                  Ab Cd-ef
                                                             b.
       a.
            Ab Cd-Ef
                                                                  Error
                                                             d.
       c.
20.
       What will be the output of the following Python code snippet?
       print('abef'.partition('cd'))
           ('abef')
                                                             b.
                                                                  ('abef', 'cd', ")
       a.
            ('abef', ", ")
                                                             d.
                                                                 -1
       What will be the output of the following Python code snippet?
21.
       print('xyyxyyxyxyxy'.replace('xy', '12', 0))
                                                             b.
            xyyxyyxyxyxy
                                                                  12y12y1212x12
                                                             d.
            12yxyyxyxyxyx
                                                                  xyyxyyxyxyx12
22.
       What will be the output of the following Python code snippet?
       print('abcdefcdghcd'.split('cd'))
       a.
            ['ab', 'ef', 'gh']
                                                             b.
                                                                  ['ab', 'ef', 'gh', "]
            ('ab', 'ef', 'gh')
                                                                  ('ab', 'ef', 'gh', ")
                                                             d.
23.
       What will be the output of the following Python code?
       print('xyxxyyzxxy'.lstrip('xyy'))
       a.
            zxxy
                                                             b.
                                                                  xyxxyyzxxy
            xyxzxxy
                                                                  None
                                                             d.
       c.
24.
       What will be the output of the following Python code?
       names1 = ['Amir', 'Bear', 'Charlton', 'Daman']
       names2 = names1
       names3 = names1[:]
       names2[0] = 'Alice'
       names3[1] = 'Bob'
       sum = 0
       for ls in (names1, names2, names3):
          if ls[0] == 'Alice':
            sum += 1
          if ls[1] == 'Bob':
            sum += 10
       print(sum)
            11
       a.
                                                                  12
                                                             b.
                                                                  22
            21
                                                             d.
       c.
       What will be the output of the following Python code?
25.
       myList = [1, 5, 5, 5, 5, 1]
       max = myList[0]
       indexOfMax = 0
       for i in range(1, len(myList)):
          if myList[i] > max:
            max = myList[i]
            indexOfMax = i
       print(indexOfMax)
            1
                                                                  2
       a.
                                                             b.
            3
                                                                  4
                                                             d.
       c.
```

Section-B

This section consists of 24 Questions (26 to 49). Attempt any 20 questions 26. What will be the output of the following Python code? colors = ['red', 'green', 'blue', 'yellow'] colors.insert(colors.index('blue'), 'orange') print(colors) ['red', 'orange', 'green', 'blue', 'yellow'] ['red', 'green', 'orange', 'blue', 'yellow'] b. ['red', 'green', 'blue', 'yellow', 'orange'] ['orange', 'red', 'green', 'blue', 'yellow'] d. 27. What will be the output of the following Python code? def m(list): v = list[0]for e in list: if v < e: v = ereturn v values = [[3, 4, 5, 1], [33, 6, 1, 2]]for row in values: print(m(row), end = " ") 3 33 b. 11 a. 56 d. 5 33 c. 28. What is the output: print(not(4>3),end=' ') print(not(5&5))False False None None a. b. True False True True d.

29. What will be the output of the following Python code?

```
a=[1,2,3]
b=a.append(4)
print(a)
print(b)
a. [1,2,3,4]
```

a. [1,2,3,4] [1,2,3,4] c. [1,2,3,4]

None

b. [1,2,3]

[1,2,3,4]

d. [1,2,3,4] [1,2,3]

30. What will be the output of the following Python code snippet?

```
x = 'abcd'
for i in range(len(x)):
    x[i].upper()
print (x)
```

a. abcdc. ABCd

b. ABCD

d. Error

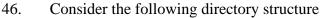
31. Find the output:print(bool('False'), end=' ')
print(bool())

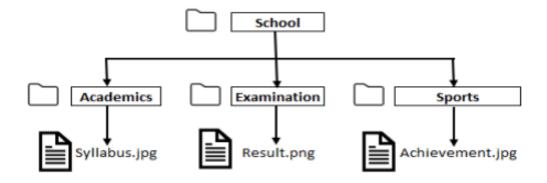
```
False True
                                                                   None None
       a.
                                                              b.
                                                                   True False
            True True
32.
       What will be the output of the following Python code?
       a=[10,23,56,[78]]
       b=list(a)
       a[3][0]=95
       a[1]=34
       print(b)
            [10,34,56,[95]]
                                                              b.
                                                                 [10,23,56,[78]]
            [10,23,56,[95]]
                                                              d. [10,34,56,[78]]
33.
       What is the output:
       L = list('123456')
       L[0] = L[5] = 0
       L[3] = L[-2]
       print(L)
            [0, '2', '3', '4', '5', 0]
                                                              b. ['6', '2', '3', '5', '5', '6']
       c. ['6', '2', '3', '5', '5', '6']
                                                              d. [0, '2', '3', '5', '5', 0]
34.
       Find the output:
       tup = { }
       tup[(1,2,4)] = 8
       tup[(4,2,1)] = 10
       tup[(1,2)] = 12
       sum 1 = 0
       for k in tup:
          sum1 += tup[k]
       print(len(tup) + sum1)
            34
                                                                   12
       a.
                                                              b.
       c.
            31
                                                              d.
                                                                   33
35.
       Find the output:
       D = \{1: 1, 2: '2', '1': 2, '2': 3\}
       D['1'] = 2
       print(D[D[Str(D[1])]])
            2
                                                              b.
                                                                   3
       a.
            '2'
                                                                   '1'
                                                              d.
36.
       What is the output of the below program?
       list1 = range(100, 110)
       print(list1.index(105))
            4
                                                                   5
       a.
                                                              b.
                                                                   Error
       c.
            6
                                                              d.
       When iterating over an object returned from csv.reader(), what is returned with each iteration?
37.
            The column data as a list
                                                                   The full line of the file as a string
                                                              b.
            Individual value data separated by a delimiter
                                                                   The row data as a list
                                                              d.
38.
       What is the value of the expression:
```

1+2**3*4

```
33
                                                             b.
                                                                  36
       a.
            108
                                                                  68
       c.
                                                             d.
39.
       Find the output:
       d={1:"Amazon", 2:"Nile", 3:"Danube", 4:"Indus"}
       while d:
          print(d.popitem())
       print("Done")
       a. (4, 'Indus')
                                                             b.
                                                                  (4, 'Indus')
            (3, 'Danube')
                                                                  (3, 'Danube')
            (2, 'Nile')
                                                                  (2, 'Nile')
            (1, 'Amazon')
                                                                  (1, 'Amazon')
            Done
           (4, 'Indus')
                                                             d.
                                                                  (4, 'Indus')
                                                                  Done
40.
       Find the output:
       s="
       n=5
       while n>0:
          n=1
          if n\% 2 == 0:
            continue
          a=['Python', 'Java', 'C++']
          while a:
            s + = str(n) + a.pop(0)
            if len(a) < 2:
               break
       print(s)
            PythonJavaPythonJava
                                                             b.
                                                                  3Python1Java
            3Python3Java1Python1Java
                                                                  3Python2Java1C++
                                                             d.
41.
       Find the output:
       a=True
       b= False
       c=False
       if not a or b:
          print("Hello")
       elif not a or not b and c:
          print("Welcome")
       elif not a or b or not b and a:
          print("Programming")
       else:
          print("Goodbye")
            Hello
                                                                  Programming
                                                             b.
            Welcome
                                                             d.
                                                                  Goodbye
42.
       Find the output:-
       D=dict()
```

for i in range(3): for j in range(5): D[i]=iprint(D) {0: 4, 1: 4, 2: 4} b. $\{0: [1,2,3,4], 1: [1,2,3,4], 2: [1,2,3,4]\}$ $\{0: 1, 1: 2, 2: 3\}$ d. $\{0: 1, 1: 2, 2: 3, 3:4, 4: 5\}$ 43. Find the output: value=[1,2,3,4] data=0 try: data=value[4] except IndexError: print("Error 1",end='%') except: print("Error 2",end='#') finally: print("Error 3",end='\$') Error 1% b. Error 1 Error 1% Error 2#Error 3\$ d. Error 1% Error 3\$ 44. Find the output: L=[1,3,5,7,9] print(L.pop(-3),end='&') print(L.remove(L[0]),end='@') print(L) 5&None@[3, 7, 9] a. b. 5&1@[3, 7, 9] None&None@[3, 7, 9] d. [3,7,9] 45. Find the output: from math import * a=12.3b=33.7777 c = -3.12print(int(a),floor(b),ceil(c),fabs(c),sep='%',end='\$') 12%33%-3%3.12 b. 12%33%-3%3.12\$ 12%33%-4%3.12 D. 12%33%-4%3.12\$





Suppose the current working directly is Academics. What is the absolute path of file Achievement.jpg?

,,/Sports/Achievement.jpg

Achievement.jpg b.

./ Sports/Achievement.jpg c.

School/Sports/Achievement.jpg d.

47. Find the output:

```
L=[5,7.8,"Python",True,0,"Java",None,4,False,9.2]
val1=0
val2="
for x in L:
  if type(x) == int or type(x) == float :
     val1+=x
  elif type(x) = str:
     val2+=x
  elif type(x)==bool:
     val1-=x
  else:
     break
print(val1,val2)
```

a. 11.8 PythonJava b. 12.8 Python

25 PythonJava

- 26 PythonJava d.
- 48. Why is it considered a good practice to open a file from within a Python script using the with keyword?
 - The with keyword helps you choose which application to open the file in
 - The with keyword ensures that the file is closed even if an exception arises
- The with keyword acts like a loop and b. helps you access each line in the file
- The with keyword reduces the program d. size and improves modularity

49. What is the output:

```
check1=['Learn','Quiz','Practice']
check2=check1
check3=check1[:]
check2[0]="Python"
check3[1]="Java"
count=0
for c in (check1,check2,check3):
  if c[0]=="Python":
    count=count+5
  if c[1]=="Java":
    count=count+10
print(count)
```

- 20 a.

45 b.

c. 25 d. 30

Section-C (Case Study based Question)

	This section consists of 6 Questions (50 -55). Attempt any 5 questions				
	Rahul is given an incomplete program "data.csv". Help him complete the program.				
	import #statement 1				
	with: #statement 2				
	r = csv.(f) #statement 3				
	for row in: #statement 4				
	print() #statement 5				
50.	Fill in the blank in Statement 2				
	a. open("data.csv") as f	b.	f=open("data.csv")		
	c. Both A & B are Correct	d.	Both A & B are incorrect		
51.	Fill in the blank in Statement 3				
	a. load()	b.	read()		
	c. reader()	d.	readlines()		
52.	Fill in the blank in Statement 4				
	a. f	b.	r		
	c. row	d.	r,f		
53.	Fill in the blank in Statement 5				
	a. f	b.	r		
	c. row	d.	r,f		
54.	Fill in the blank in Statement 1				
	a. pickle	b.	csv		
	c. sys	d.	os		
55.	If Rahul wants to write the data which he read to another csv file, he needs to a create a				
	object.				
	a. reader()	b.	writer()		
	c. readline()	d.	writeline()		
