

# PRACTICE PAPER

**SUBMITTED BY  
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**CLASS XII SC (2021-22)  
SUB: Computer Science(083)  
(Theory: Preterm 1)**

**Time -90 minutes**  
General Instructions:

**M. Marks- 35**

- This question paper is divided into 3 sections A, B and C.
- Section A has 25 Questions (1-25). Attempt any 20 .
- Section B has 24 Questions (26-49). Attempt any 20 .
- Section C has 6 case-based Questions (50-55). Attempt any 5.
- Programming language is Python. All question carry equal marks **0.77**

Q No	Section A answer any 20 out of 25	Marks
	Only one correct solution to be selected	
1	A function is defined as below, the function call parameters can be <pre>&gt;&gt;&gt; def first(a,b=9):     print(a," ",b)</pre> <p>A. Two tuples B. Two numbers C. One number D. All of the above</p>	0.77
2	If <b>mytup=(1,2,3,4,5,6,7,8,9)</b> what will be the output of <b>list(mytup)</b> A. [1, 2, 3, 4, 5, 6, 7, 8, 9] B. [(1, 2, 3, 4, 5, 6, 7, 8, 9)] C. 1, 2, 3, 4, 5, 6, 7, 8, 9 D. None of the above	0.77
3	The output of the python statement <b>type(False)</b> is A. <class 'str'> B. <class 'bool'> C. <class 'float'> D. <class 'int'>	0.77
4	If <b>LL=[11,22,33,(44,55),66]</b> what is the output of the python statement <b>type(LL[3])</b> A. <class 'list'> B. <class 'bool'> C. <class 'int'> D. <class 'tuple'>	0.77
5	In the statement <b>for i in range(10)</b> the start, stop and step values are A. 0, 9, 1 B. 0, 10, 1 C. 1, 10, 1 D. 1, 9, 1	0.77

6	<p>The statement <b>for i in range(-5)</b> will print</p> <p>A. -5,-4,-3,-2,-1,0  B. -5,-4,-3,-2,-1  C. Nothing  D. Error</p>	0.77
7	<p><b>myfile.txt</b> is a file stored in the working directory. Total number of characters including spaces are 106 and there are 5 lines. What will be the output of <b>len(file.readlines())</b> after the file was opened as <b>file=open('myfile.txt')</b></p> <p>A. 4  B. 106  C. 5  D. 1</p>	0.77
8	<p><b>myfile0.txt</b> is a file stored in the working directory. Study the code sequence and determine what the final output <b>12</b> indicates</p> <pre>&gt;&gt;&gt; file=open('myfile0.txt') &gt;&gt;&gt; d=file.read() &gt;&gt;&gt; len(d.split()) 12</pre> <p>A. lines  B. words  C. characters  D. nothing</p>	0.77
9	<p>If L= [25,17,31,13,2], in bubble sort for ascending order, identify the correct sequence at the end of the first iteration.</p> <p>A. [17, 13, 2, 25, 31]  B. [13, 2, 17, 25, 31]  C. [17, 25, 13, 2, 31]  D. [2, 13, 17, 25, 31]</p>	0.77
10	<p>Determine the final output based on the following sequence of commands</p> <pre>&gt;&gt;&gt; mylist=[10,20,(30,40,50),60,70] &gt;&gt;&gt; mylist.reverse() &gt;&gt;&gt; mylist[1:4:2]</pre> <p>A. [60, 20]  B. [60, (50,40,30)]  C. [60, (50,40,30), 20]  D. [20, 60]</p>	0.77
11	<p>Find the correct output of the sequence, consider requisite modules are imported</p> <pre>&gt;&gt;&gt; for i in "machine learning model":         if i not in string.ascii_letters:             print("\$", end="")</pre> <p>A. \$\$\$  B. \$\$\$\$  C. \$\$  D. \$</p>	0.77

12	<p>If S=(10,20,30,30,40,50) then <b>S.count('20')</b> is</p> <p>A. 1 B. 0 C. Error D. None of the above</p>	0.77
13	<p>To create a string we can put a sequence of characters in</p> <p>A. single quotes B. double quotes C. triple quotes D. both A and B are only correct</p>	0.77
14	<p>To add a number to a string using + operator we can</p> <p>A. put the number in single quotes or in double quotes B. put the number in double quotes only C. put the number in single quotes or in double quotes or also can use str() function D. just add the number as it is</p>	0.77
15	<p>Determine the output of w</p> <pre>mystr="Brahmi is well known to promote mind wellness" &gt;&gt;&gt; w=mystr.split() &gt;&gt;&gt; del w[4] &gt;&gt;&gt; w.remove('well') &gt;&gt;&gt; w.pop(3) &gt;&gt;&gt; w</pre> <p>A. ['Brahmi', 'is', 'known', 'promote', 'wellness'] B. ['Brahmi', 'is', 'known', 'to', 'wellness'] C. ['Brahmi', 'is', 'known', 'to', 'mind', 'wellness'] D. ['Brahmi', 'is', 'known', 'mind', 'wellness']</p>	0.77
16	<p>What is the final value stored in ctr ?</p> <pre>&gt;&gt;&gt; mystr="India is my country, I love my country" &gt;&gt;&gt; ctr=0 &gt;&gt;&gt; for country in mystr:     if(country=='country'):         ctr += 1</pre> <p>A. 0 B. 1 C. 2 D. 14</p>	0.77
17	<p>How to print <b>country</b> from the list</p> <pre>S=['India', 'is', 'my', 'country,', 'I', 'love', 'my', 'country']</pre> <p>A. S[3] B. S[-5] C. Both A and B D. S[4]</p>	0.77
18	<p>not True and False or True is equal to</p> <p>A. False B. True C. 0 D. 1</p>	0.77

19	<p>What is stored in ctr after the following code is executed?</p> <pre>&gt;&gt;&gt; import re &gt;&gt;&gt; ctr=0 &gt;&gt;&gt; if(re.search('country\$', 'I love my country')):     ctr += 5 else:     ctr +=10</pre> <p>A. 0 B. 5 C. 10 D. 15</p>	0.77
20	<p>What will be printed when the following code is executed?</p> <pre>&gt;&gt;&gt; for i in range(5):     if(i==2):         continue     else:         print(i, end="")</pre> <p>A. 01345 B. 1345 C. 0134 D. 2</p>	0.77
21	<pre>&gt;&gt;&gt; str='Drink water as water can replenish your energy. Drinking potable water is imporant.' &gt;&gt;&gt; str.rfind('water')</pre> <p>A. rfind() method finds the last occurrence of 'water' B. rfind() method finds the first repeat occurrence of 'water' C. rfind() method finds all occurrences of 'water' D. rfind() method finds the first occurrence of 'water'</p>	0.77
22	<p>What is the output?</p> <pre>&gt;&gt;&gt; S=[x**2 for x in range (3)] &gt;&gt;&gt; S</pre> <p>A. [0, 1, 2] B. [0, 2, 4] C. [1, 2, 4] D. [0, 1, 4]</p>	0.77
23	<p>Look at the sequence and find L1 and L2</p> <pre>&gt;&gt;&gt; L1=[1,2] &gt;&gt;&gt; L2=[3,4] &gt;&gt;&gt; L1.extend(L2)</pre> <p>A. L1=[1, 2, 3, 4] , L2=[] B. L1=[1, 2, 3, 4] , L2=[3,4] C. L1=[1, 2] , L2=[3,4] D. L1=[1, 2] , L2=[1,2,3,4]</p>	0.77
24	<p>Find the most correct statement related to</p> <pre>&gt;&gt;&gt; 3**1**3</pre> <p>A. Output is 27 B. Output is 3 C. ** is Right associative D. Both B and C</p>	0.77

25	<pre>&gt;&gt;&gt; str='I love this monsoon' &gt;&gt;&gt; str.count('o',4) # find the output</pre> <p>A. 4 B. 3 C. 2 D. 0</p>	0.77
Q No	Section B answer any 20 out of 24	
	Only one correct solution to be selected	
26	<p>A text file readme.txt is opened in Python. What type of data is stored in f?</p> <pre>&gt;&gt;&gt; file=open('readme.txt') &gt;&gt;&gt; f=file.readlines()</pre> <p>A. String B. Tuple C. List D. None of the above</p>	0.77
27	<p>Find P and Q from the options while performing object serialization</p> <pre>&gt;&gt;&gt; import pickle &gt;&gt;&gt; spc=open("yoyo.dat","wb") &gt;&gt;&gt; x=500 &gt;&gt;&gt; pickle.dump(P,Q)</pre> <p>A. x,spc B. spc, x C. 'yoyo.dat',500 D. 'yoyo.dat','500'</p>	0.77
28	<p>A text file myfile0.txt has two lines of text, what will be stored in the variable ctr when the following code is executed?</p> <pre>&gt;&gt;&gt; ctr=0 &gt;&gt;&gt; spc=open("myfile0.txt") &gt;&gt;&gt; while(spc.readline()):     ctr += 1</pre> <p>A. 0 B. 1 C. 2 D. 3</p>	0.77
29	<p>How many lines does the file myfile00.txt has after the code is executed?</p> <pre>&gt;&gt;&gt; mylist=['India', '\nis', '\nmy', '\ncountry', '\nand', '\nI', '\nam', '\na', '\nproud', '\ncitizen'] &gt;&gt;&gt; spc=open("myfile00.txt","w") &gt;&gt;&gt; spc.writelines(mylist)</pre> <p>A. 2 B. 10 C. 9 D. 1</p>	0.77
30	<p>Identify the output of the following Python statements</p> <pre>&gt;&gt;&gt; x=[[i for i in range(5)],[j for j in range(5,10)]] &gt;&gt;&gt; print(x[1][2])</pre> <p>A. 4 B. 3 C. 6 D. 7</p>	0.77

31	<p>Look at the code sequence and determine the correct output</p> <pre>&gt;&gt;&gt; s=0 &gt;&gt;&gt; while(s):     str="CBSE 2022"     str[2:8:2]     s -= 1</pre> <p>A. 'S 0'  B. 'S 0' many times till interrupted  C. Nothing is printed  D. ' 0'</p>	0.77
32	<p>Find the value of the variable b after all the lines of codes are executed</p> <pre>&gt;&gt;&gt; b=5 &gt;&gt;&gt; for a in range(5):     b -= a</pre> <p>A. 5  B. 0  C. -4  D. -5</p>	0.77
33	<p>Look at the code sequence and select the correct answer</p> <pre>&gt;&gt;&gt; mylist1=[1,2,3,4,5,6] &gt;&gt;&gt; mylist2.extend(mylist1)</pre> <p>A. mylist2 not defined error will be the result  B. mylist2 is now same as mylist1  C. There will be no error but mylist2 is not created  D. None of the above</p>	0.77
34	<p>Identify the missing part in the code to write the list object in the file</p> <pre>&gt;&gt;&gt; import pickle &gt;&gt;&gt; x=[1,3,5,7] &gt;&gt;&gt; f=open('w.dat','wb') &gt;&gt;&gt; pickle.____(x,f) &gt;&gt;&gt; f.close()</pre> <p>A. write()  B. writeline()  C. load()  D. dump()</p>	0.77
35	<p>What will be the output of the Python code?</p> <pre>&gt;&gt;&gt; def testify(a,b):     return a-b &gt;&gt;&gt; sum=testify(22,55) &gt;&gt;&gt; sum+30</pre> <p>A. 33  B. -33  C. 3  D. -3</p>	0.77
36	<p>What will be the output of the following code?</p> <pre>&gt;&gt;&gt; def a(b=11, c=21):     b += 13     c -= 13     return b+c</pre>	0.77

	<pre>&gt;&gt;&gt; print(a(25), a(35))</pre> <p>A. 15 18 B. 46 56 C. 25 35 D. 13 12</p>	
37	<p>Evaluate the following expression and select the correct answer</p> <pre>&gt;&gt;&gt; 35 - (3+5) * 3 + 5 ** 3 * 5</pre> <p>A. 655 B. 636 C. 512 D. 359</p>	0.77
38	<p>What will be the output of the following code?</p> <pre>num=100 def showval(X):     global num     num = 85     if(X%2==0):         num += X     else:         num -= X print(num,end="#") showval(33) print(num)</pre> <p>A. 100#52 B. 85#52 C. 85#33 D. 185#52</p>	0.77
39	<p>Find the impossible option from the following</p> <pre>&gt;&gt;&gt; import random &gt;&gt;&gt; L=[i for i in range(random.randint(3,5))]</pre> <p>A. [0, 1, 2, 3] B. [0, 1, 2, 3, 4] C. [0, 1, 2, 3, 4, 5] D. [0, 1, 2]</p>	0.77
40	<p>Look at the function definition and the function call and determine the correct output</p> <pre>&gt;&gt;&gt; def test(a):     if(a&gt;10):         a += 10     if(a&gt;20):         a += 20     if(a&gt;30):         a +=30     print(a)  &gt;&gt;&gt; test(11)</pre> <p>A. 21 B. 72 C. 61 D. 71</p>	0.77

41	<p>Look at the code sequence and select the correct output</p> <pre>&gt;&gt;&gt; h=('mango','pineapple','apple','tomato') &gt;&gt;&gt; print(max(h), min(h))</pre> <p>A. tomato apple B. tomato mango C. pineapple apple D. None of the above</p>	0.77
42	<p>Consider the dictionary as shown below and identify the incorrect command.</p> <pre>&gt;&gt;&gt; di={'abc':123,'def':456,'ghi':789,'mno':852}</pre> <p>A. di.pop() B. di.keys() C. di.update({'xyz':789}) D. di.popitem()</p>	0.77
43	<p>If the csv file 'item.csv' has a header and 3 records in 3 rows and we want to display only the header after opening the file with open() function, we should write</p> <p>A. print(file.readlines()) B. print(file.read()) C. print(file.readline()) D. print(file.header())</p>	0.77
44	<p>statistics.mode([10,10,11,12,14,11,11,15,15,16,15]) will return (consider module is imported)</p> <p>A. 10 B. 15 C. 11 D. Error</p>	0.77
45	<p>{1:2,3:4}=={3:4,1:2} is</p> <p>A. False B. Null C. Error D. True</p>	0.77
46	<p>r=random.randint(12,24) , then domain of r is</p> <p>A. <math>12 \leq r &lt; 24</math> B. <math>12 &lt; r \leq 24</math> C. <math>12 &lt; r &lt; 24</math> D. <math>12 \leq r \leq 24</math></p>	0.77
47	<p>mysql.connector.connect() has parameters</p> <p>A. host B. user C. password D. all of the above</p>	0.77
48	<p>The append() built in function is associated with</p> <p>A. Tuple B. Dictionary C. List D. List and Tuple</p>	0.77
49	<p>if t=(10,20,30,{2:3,4:5},40,50), t[2:] will display</p> <p>A. ({2: 3, 4: 5}, 40, 50) B. (30, {2: 3, 4: 5}, 40, 50) C. ({2: 3, 4: 5},) D. ()</p>	0.77



Q No	Section C answer any 5 out of 6	
	Only one correct solution to be selected	
	Import _____ # <b>Statement 1</b> _____ = ['Company','Model','RatePerHour'] # <b>Statement 2</b> rows = [ ['Telsa','2019 Model 3','56'],['Volvo','2020 XC 60','59'],['BMW','2019 BMW 5 Series','62']] _____ = "carmaster.csv" # <b>Statement 3</b> with open(filename, 'w') as _____: # <b>Statement 4</b> csvwriter = csv.writer(csvfile) csvwriter._____ (fields) # <b>Statement 5</b> csvwriter._____ (rows) # <b>Statement 6</b> csvfile.close()	
50	Identify the suitable Python code for the blank in Statement 1 A. pandas as pd B. csv C. pickle D. os	0.77
51	Identify the suitable Python code for the blank in Statement 2 to store column names A. header B. columns C. fields D. None of the above	0.77
52	Identify the suitable Python code for the blank in Statement 3 that tells the file name A. csvfile B. carmaster.csv C. file D. filename	0.77
53	Identify the suitable Python code for the blank in Statement 4 A. filename B. csvfile C. file D. f	0.77
54	Identify the suitable Python code for the blank in Statement 5 for column names A. writerows B. writerow() C. writerow D. writerows()	0.77
55	Identify the suitable Python code for the blank in Statement 6 A. writerows B. writerow() C. writerow D. writerows()	0.77