

PRACTICE PAPER

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

Time -90 minutes

M. Marks- 35

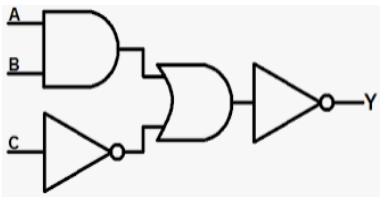
General Instructions:

- 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	Identify the one not within the CPU A. ALU B. CU C. AX, BX, CX, DX registers D. DVD	0.77
2	Which one is a cloud service? A. IaaS B. PaaS C. SaaS D. All of the above	0.77
3	Find the incorrect relation in the units of computer memory measurements from below A. 1024 TB = 1 PB B. 1024 Bits = 1 KB C. 1024 MB = 1 GB D. 1024 GB = 1 TB	0.77
4	If S is a Boolean variable determine the incorrect Boolean statement for OR laws A. $S + 1 = S$ B. $S + 1 = 1$ C. $S + 0 = S$ D. $S + S = S$	0.77
5	Find the correct equivalent of the Boolean statement $a + (a \cdot b)$ A. 0 B. 1 C. b D. a	0.77
6	In AND logic gate if the inputs a and b are both 0 then A. output is 0 B. output is 1 C. in switching circuitry it means both the switches are open D. both A and C are correct	0.77
7	Find the impossible digit of the Octal number system	0.77

	<p>A. 0 B. 1 C. 8 D. 6</p>	
8	<p>The decimal equivalent of binary 0011_2 is A. 11 B. 12 C. 2 D. 3</p>	0.77
9	<p>The hexadecimal number system includes all the numbers of A. binary number system B. octal number system C. decimal number system D. all of the above is correct</p>	0.77
10	<p>If 37 is an Octal number, we can A. add a subscript 8 to it B. to convert it to a hexadecimal number we convert each digit to 4 bits binary first C. to convert it to a hexadecimal number we convert each digit to 3 bits binary first D. both A and C are correct</p>	0.77
11	<p>If $t=(10,20,30,\{2:3,4:5\},40,50)$, then A. t is a List B. t is a Dictionary C. t is a Tuple D. t is a String</p>	0.77
12	<p>Look at the code below and find the output >>> mystr="India is a great country with rich cultural heritage" >>> for i in mystr: if i in 'XTZ': print(i, end=" ") A. XTZIndia is a great country with rich cultural heritage B. India is a great country with rich cultural heritageXTZ C. Error message D. Nothing will be printed</p>	0.77
13	<p>Set of statements executed again and again based on a conditional test A. Selection B. Sequence C. Iteration D. None of the above</p>	0.77
14	<p>All instructions executed one by one A. Selection B. Sequence C. Iteration D. None of the above</p>	0.77
15	<p>Leading white space that determines a new group of statements in Python A. Newline B. Indentation C. Iteration D. None of the above</p>	0.77
16	<p>It's a combination of operators operands and constants A. Expression B. Syntax C. Rules D. None of the above</p>	0.77
17	<p>Which of the below is a valid variable name? A. global</p>	0.77

	B. 99dd C. sum D. Yo\$o	
18	Identify the correct statement A. str(90) B. str(90/8) C. str(9**6) D. All of the above	0.77
19	Find the correct output >>> 64**0.5==65//8 A. True B. False C. Error D. None of the above	0.77
20	L is a data type in Python having a built in function split(), L must be a A. List B. Tuple C. String D. None of the above	0.77
21	The append() built in function is associated with A. List B. Tuple C. String D. None of the above	0.77
22	A function header has A. function name B. function parameters C. Both A and B D. None of the above	0.77
23	The \$ meta character is used to find a sub-string which is A. At the middle of the main string B. At the end of the main string C. At the beginning of the main string D. \$ is not a meta character	0.77
24	Look at the sequence and determine the output >>> str="Python" >>> str[:-1] A. 'nohtyP' B. 'nhy' C. 'nhyP' D. 'Pytho'	0.77
25	The third last character in a String str can be accessed by A. str[-3] B. str[-2] C. str[2] D. str[3]	0.77
Q No	Section B answer any 20 out of 24	
	Only one correct solution to be selected	
26	Which is not an assignment operator? A. /= B. //= C. != D. +=	0.77

27	<p>The function implemented by the circuit shown below is</p>  <p>A. $(A+B \cdot C)'$ B. $A \cdot B + C'$ C. $A+B \cdot C'$ D. $(A \cdot B + C)'$</p>	0.77
28	<p>Find the output</p> <pre>>>> L=[i for i in range(10)] >>> L</pre> <p>A. Error B. [0, 1, 2, 3, 4, 5, 6, 7, 8, 9] C. [1, 2, 3, 4, 5, 6, 7, 8, 9] D. [0, 2, 4, 6, 8]</p>	0.77
29	<p>Look at the code and determine the output</p> <pre>>>> t=-5 >>> while(t<5): print(t*'H', end='') t += 1</pre> <p>A. HHHHHHHHHH B. HHHHH C. H D. Nothing will be printed</p>	0.77
30	<p>Look at the code and determine the output</p> <pre>>>> j=-6 >>> while(j): print("Ha", end='') j += 1</pre> <p>A. Ha B. HaHaHaHaHaHa C. Error D. Nothing will be printed</p>	0.77
31	<p>The output of the following expression is</p> <pre>>>> 3**1**3</pre> <p>A. 27 B. 1 C. 3 D. Error</p>	0.77
32	<p>Look at the code sequence and select the appropriate option for value of F</p> <pre>>>> import random >>> F=random.randint(4,14) >>> F</pre> <p>A. 4 B. 14 C. 10 D. All of the above</p>	0.77
33	<p>Look at the code sequence and select the correct output</p> <pre>>>> str="APS Bengdubi" >>> for i in str: if(i.isupper())==True:</pre>	0.77

	<pre>print(i.lower(), end="") if(i.islower()==True): print(i.upper(), end="")</pre> <p>A. aps bENG DUBI B. apsbENG DUBI C. Error D. None of the above</p>	
34	<p>Find the correct output of the following</p> <pre>>>> str="The planet earth our world looks like a blue marble from outer space" >>> str.find('marble',50)</pre> <p>A. 45 B. 0 C. -45 D. -1</p>	0.77
35	<p>What is the output of the following</p> <pre>>>> import string >>> string.digits</pre> <p>A. '0123456789abcdefABCDEF' B. '0123456789abcdef' C. Error D. '0123456789'</p>	0.77
36	<p>What value is stored in j?</p> <pre>>>> def test(a,b=5): a += b return a >>> j=test(34) >>> j</pre> <p>A. 35 B. 36 C. 39 D. 41</p>	0.77
37	<p>Look at the sequence of commands and determine the final output</p> <pre>>>> import math >>> s=math.floor(-67.33) >>> print(s, s+100)</pre> <p>A. -68 100 B. -68 132 C. 67 32 D. -68 32</p>	0.77
38	<p>Look at the sequence of commands and determine the impossible result from options</p> <pre>>>> for i in range(100): print(random.randrange(5,35,4), end=" ")</pre> <p>A. 21 B. 33 C. 28 D. 5</p>	0.77
39	<p>Determine the output of the following</p> <pre>>>> r=('apple','pineapple','mango','strawberry') >>> print(min(r)+max(r))</pre> <p>A. applestrawberry B. mangostrawberry C. pineapplestrawberry D. pineapplemango</p>	0.77

40	<p>Find the outputs</p> <pre>>>> def testify(a,b=35): a=a+100 b=b+a print(a) return b >>> c=testify(12,13) >>> c</pre> <p>A. 112, 125 B. 112, 13 C. 113, 125 D. 12, 13</p>	0.77
41	<p>Find the output</p> <pre>>>> mystr="Darjeeling Tea" >>> mystr.split()</pre> <p>A. Darjeeling Tea B. ('Darjeeling', 'Tea') C. ['Darjeeling', 'Tea'] D. ['D', 'a', 'r', 'j', 'e', 'e', 'l', 'i', 'n', 'g', ' ', 'T', 'e', 'a']</p>	0.77
42	<p>Find the value stored in ctr at the end</p> <pre>>>> mystr="Darjeeling Tea has a strong flavour" >>> ctr=0 >>> for i in mystr: if i in 'aeiouAEIOU': ctr += 1</pre> <p>A. 10 B. 11 C. 12 D. 0</p>	0.77
43	<p>Look at the code and select the correct option</p> <pre>mystr="Darjeeling Tea has a strong flavour" if(mystr.isspace()): print(mystr.upper()) if(mystr.startswith('D')): print(mystr.title())</pre> <p>A. 'DARJEELING TEA HAS A STRONG FLAVOUR' B. 'Darjeeling Tea Has A Strong Flavour' C. 'darjeeling tea has a strong flavour' D. 'Darjeeling Tea has a strong flavour'</p>	0.77
44	<p>Find the output of the following</p> <pre>>>> mystr="Darjeeling Tea has a strong flavour" >>> print(len(mystr.split()))</pre> <p>A. 6 B. 35 C. 4 D. 1</p>	0.77
45	<p>Find the output</p> <pre>>>> for i in range(25): if(i%5==0): ctr += 1 if(ctr==3): break else:</pre>	0.77

	<pre> print(i, end=" ") else: print(i, end=" ") A. 0 1 2 3 4 5 6 7 8 9 10 B. 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 16 17 18 19 21 22 23 24 C. 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 D. 0 1 2 3 4 5 6 7 8 9 </pre>	
46	<p>Find the output of the following</p> <pre> >>> import string >>> mylist=[i for i in string.ascii_lowercase] >>> len(mylist) A. 52 B. 26 C. 25 D. 1 </pre>	0.77
47	<p>What is the content of the list L2 at the end of the execution of this code?</p> <pre> >>> L1=[10,20,30,40,50] >>> L2=[] >>> for i in L1: L2.append(2*i) A. [20, 20, 30, 40, 50] B. [20, 40, 60, 80, 100] C. [10, 20, 30, 40, 50 ,20, 40, 60, 80, 100] D. [10, 20, 20, 30, 40, 40, 50, 60, 80, 100] </pre>	0.77
48	<p>Find the correct output</p> <pre> >>> H=[10, 20, 30, 40, 50 ,20, 40, 60, 80, 100] >>> print(H.index(20), H.count(20)) A. 1 2 B. 2 2 C. 0 2 D. 1 1 </pre>	0.77
49	<p>Find the output</p> <pre> >>> N=[[i for i in range(5)], [j for j in range(5,10)]] >>> N[1][2] A. 5 B. 6 C. 7 D. 8 </pre>	0.77
Q No	Section C answer any 5 out of 6	
	Only one correct solution to be selected	
	<p>Look at the code and answer the Q from 50-55</p> <pre> while(True): name=input("Enter your name\t") print("Enter marks") eng=int(input('Enter marks in English ')) phy=int(input('Enter marks in Physics ')) che=int(input('Enter marks in Chemistry ')) math=int(input('Enter marks in Mathematics ')) cs=int(input('Enter marks in Computer Science ')) total=_____ # statement 1 to add all subject marks average=_____ # statement 2 finds the average print("{} has scored {} out of 500 with an average {}".format(name,total,average)) # statement 3 if(average>=90): </pre>	

	<pre> print('Grade is A') elif(average>=80 and average<90): print('Grade is B') elif(average>=70 and average<80): print('Grade is C') elif(average>=60 and average<70): print('Grade is D') _____ : # statement 4 print('Write all the papers again') ans=input("Add more records ? ") if(_____): # statement 5 _____ # statement 6 comes out of the loop </pre>	
50	<p>Statement 1 will be</p> <p>A. sum(total) B. eng+phy+che+mat+cs C. eng, phy, che, mat, cs D. total(sum)</p>	0.77
51	<p>Statement 2 will be</p> <p>A. sum(total) / 5 B. (eng+phy+che+mat+cs) / 5 C. eng, phy, che, mat, cs / 5 D. total(sum) / 5</p>	0.77
52	<p>Statement 3 will be</p> <p>A. convert B. sum C. format D. endl</p>	0.77
53	<p>Statement 4 will be</p> <p>A. for B. range C. loop D. else</p>	0.77
54	<p>Statement 5 will be</p> <p>A. ans='N' or ans='n' B. ans=='Y' or ans=='n' C. ans='Y' or ans='y' D. ans=='N' or ans=='n'</p>	0.77
55	<p>Statement 6 will be</p> <p>A. break B. continue C. pass D. endl</p>	0.77