Exam ID.

Candidates must write the Set No. on the title page of the OMR Sheet.

## DAV PUBLIC SCHOOLS, ODISHA ZONE –I PA-II EXAMINATION, 2021-22

- Check that this question paper contains 10 printed pages.
- Set number given on the right hand side of the question paper should be written on the OMR SHEET by the candidate.
- Check that this question paper contains 55 questions.

## CLASS – XI SUB : COMPUTER SCIENCE (083)

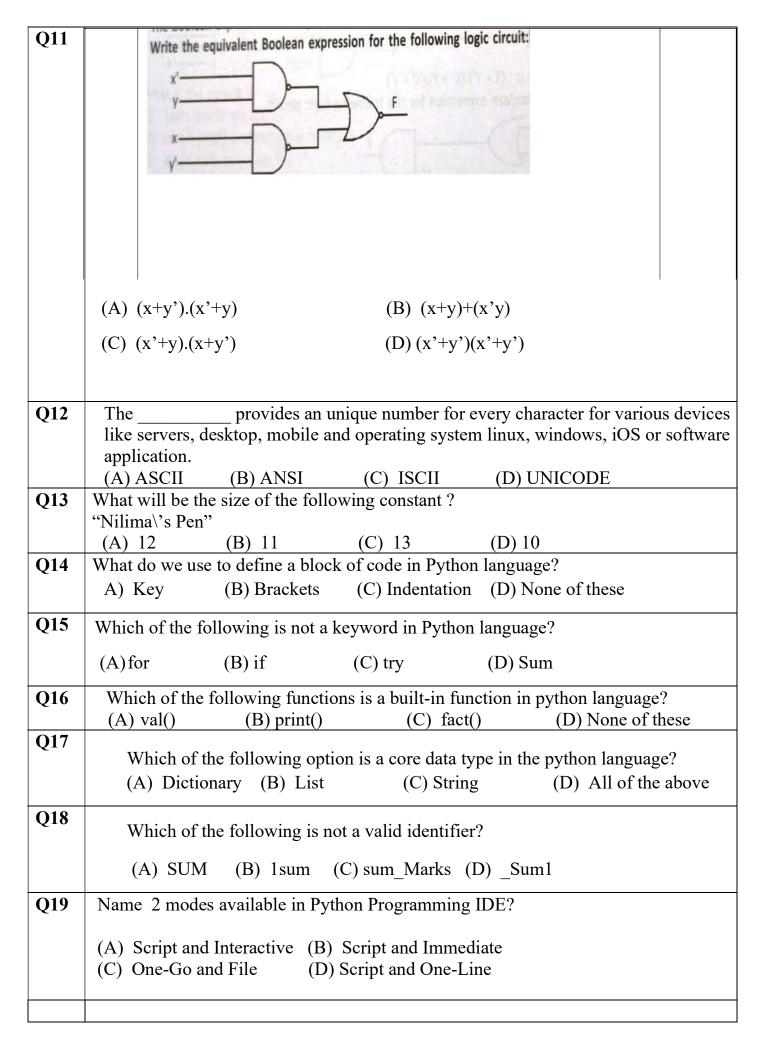
Time: 90 Minutes Maximum Marks: 35

## **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.

Q.N.	Section-A								
	This section consists of 25 Questions (1 to 25). Attempt any 20 questions from this section. ONLY first 20 answers will be considered for evaluation.								
Q1	The Arithmetic Logic Unit performs which arithmetical operation?  (A) $(+,-,*,/)$ (B) (True, False) (C) $(<,>,=,>=,<)$ (D) All of these								
Q2	Arrange the following measurement units of memory in ascending order as per their storage capacity?  1.BYTE 2. MB 3. GB 4. KB  (A) 1,2,3,4 (B) 4,3,2,1 (C) 1,4,2,3 (D) 1,4,3,2								
Q3	Which of the following is designed to control the operations of a computer?  (A) Application Software (B) System Software (C) Utility Software (D) User								
Q4	Choose the software which is designed to perform a specific task:  (A) Synchronous Software  (B) Package Software  (C) Application Software  (D) System Software								
Q5	Which of the following is an example of a Real Time Operating System?  (A) MAC (B) MS-DOS (C) WINDOWS 10 (D) Process Control								
Q6	Choose the gate which gives the output as 0 only if all the inputs signals are 1.  (A) AND (B) OR (C) NAND (D) NOR								
Q7	Write the equivalent Boolean expression for the following logic circuit:								
	(A) (A+B)(A+B') (B) (A'+B)(A+B') (C) (A'+B')(A+B) (D) (A+B)(A'+B')								
Q8	Which out of the following binary number is equivalent to decimal number 24 (A) 11011 (B) 11000 (C) 11111 (D) 11001								
Q9	The octal equivalent of $(13)_{10}$ is (A) 18 (B) 14 (C) 15 (D) 16								
Q10	Convert hexadecimal (FACE) <sub>16</sub> to its equivalent binary (A) 1111101011001110 (B) 0011101011010011 (C) 1100111111100011 (D) 1010101011111								



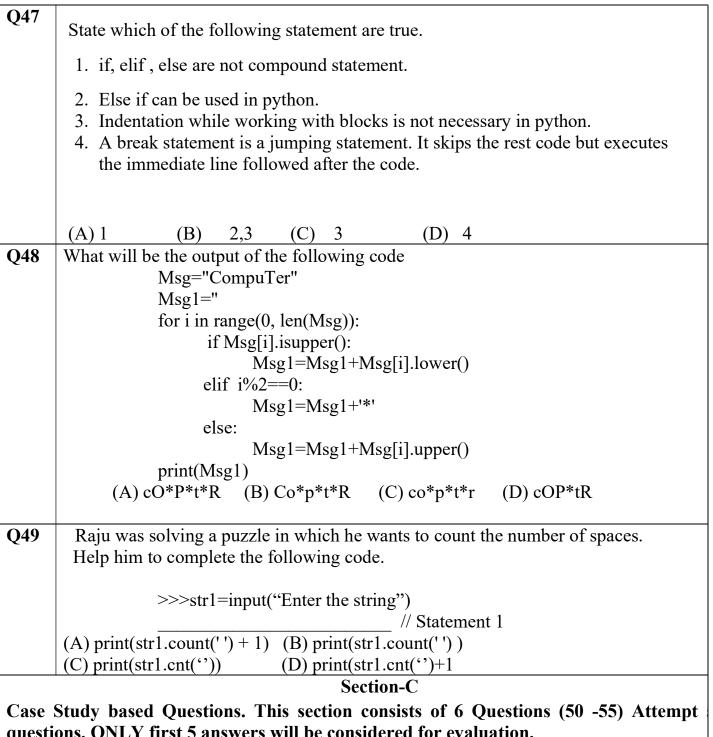
<b>Q20</b>	What is the output of this expression, 1*2**3**2								
	(A)510	(B) 5	512	(C)64	(1	D) 68			
Q21	TT71 . '11 1	. 11	D. d	1, 0,1	C 11 .				
	What will be returned by Python as result of the following statements  >>> print(str(print()) +"one")								
			Noneone	(C) one	e (D)	'Noneone'			
		) (B)	roncone	(C) On	(D)	roncone			
Q22	Special mean	ning words c	f Pythons, f	ixed for sp	ecific functi	onality are call	ed		
	` ' -	` '	Identifier		` ` ` `				
Q23	Which of th	e following	is correct w	ay to repre	sent a string	gliteral in pytho	on.		
	(A) \Monis	sh\ (B)	"Monish"	(C) 'Mor	nish' (D)	"Monish"			
Q24	The input()	returns the	value as	type	:				
	(A) integer	r (B) 1	ist	(C) float	ing (D)	string			
Q25	_		ithout endin	g it with a	newline,_	argumen	t is		
	used with p	` '		(a) 1	(D)				
	(A) sep	(B) 1	newline	(C) end	(D)	next			
			SI	ECTION-	В				
,	This section consists of 24 Questions (26 to 49). Attempt any 20 questions from								
	this section. C				nsidered for	r evaluation.			
<b>Q26</b>	Which one or		ng is expect	ed:					
	>>> len(str()	* *	1	(C) 2	(D) 2				
<b>Q27</b>	(A)5 What will be	(B)		(C) 3	(D) 2				
Q21	First1 =0	ine output (	of the follow	ing i yuloi	r code:				
	Second $1 = 1$								
	print(First1	,Second1)							
	for elem in	range( <b>2,8</b> ):							
	N1=F	First1+Secon	ıdl						
		N1, end="	,")						
		l=Second1							
		nd1=N1	(D) 1 1 2 3	2 5 9 12 (C	0011225	(	22156		
Q28	if 4+5==10:	,5,5,6,15,21	(D) $1,1,2,3$	5,5,6,15 (C	) U,1,1,2,3,3	5,8,13, (D) 0,1,1	1,2,3,4,3,0,		
Q20	print("Tru	ıe")							
	else:	,							
	print("false	e")							
	print("True")	1							
	(A) False	(C) false	<u>.</u>						
	True	(0) 14150	-						
	(B) True	(D) non	e						
	True	` /							

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Q29
         What will be the output of the following Python code?
                 str1="learn python"
                 str2=""
                 str3=""
                 for x in str1:
                       if(x=="r" \text{ or } x=="n" \text{ or } x=="p"):
                           str2+=x
                           pass
                        if(x=="r" or x=="e" or x=="a"):
                           str3+=x
                 print(str2,end=" ")
                 print(str3)
           (A) rnpn ea (B) rnpn ear (C) rnp ea (D) rnp ear
         Predict the output of the following code:
Q30
          X = 3
          if X>2 or X<5 and X==6:
               print("ok")
          else:
               print("no output")
         (A) ok
                      (B) okok
                                    (C) no output
                                                      (D) none of these
         Predict the output of the following code:
Q31
            i=1
            while(i>0):
                 i+=1
                 print(i)
         (A) 6
                       (B) 100
                                       (C) 10
                                                    (D)Infinite
Q32
         Consider the following code segment:
                 a = int(input("Enter an integer: "))
                 b = int(input("Enter an integer: "))
                 if a \le 0:
                    b = b + 1
                 else:
                    a = a + 1
                 if a > 0 and b > 0:
                    print ("W")
                 elif a > 0:
                    print("X")
                 if b > 0:
                    print("Y")
                 else:
                    print("Z")
```

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What letters will be printed if the user enters -1 for a and b
        (A) Only W
                       (B) Only X
                                         (C) Only Y
                                                         (D) Only Z
Q33
         Find the output of the following code snippet:
         for x in range (1,4):
            for y in range(2,5):
                 if x*y > 10:
                       break
                 print(x*y," ", end= ")
         (A)2 3 4 4 6 8 6 9 (B) 2 3 4 5 6 7 6 9 (C) 2 3 4 3 6 8 6 9 (D) 2 3 3 4 6 8 6 9
Q34
       What will be the output of given Python code?
                Str1="HELLO"
                C=0
                for X in Str1:
                 if(X!="L"):
                     C=C+1
                  else:
                     pass
                print(C)
           (A) 2
                           (B) 0
                                             (C) 4
                                                                 (D) 3
       What does the following Python program display if the input is entered as 'END'?
Q35
       (Ignoring the next input value)
                name=" "
                while True:
                    Name =input(" Enter name ('end to exit'):")
                    if Name=="end":
                            break
                    print("Hello", Name)
                else:
                   print("Wasn't it Fun ?")
          (A) Hello end (B) hello END (C) Hello END (D) Hello End
```

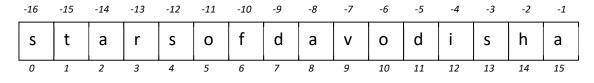
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Q36
       Which one of the following if statements will not execute successfully?
       1.if(1,12,2):
       print('foo')
       2.if(1,2):
          print('foo')
       3.if(1):
          print('foo')
       4. if(1);
          print('foo')
                          (B) 2
                                        (C) 2,4
                                                         (D) 4
Q37
               import random
               r=random.randint(10,100)-10
               print(r, end= ' ')
               r=random.randint(10,100)-10
               print(r,end = '')
               r=random.randint(10,100)-10
               print(r)
               Write the possible outcomes of the above code. What can be the maximum
               and minimum number generated by line 2 ?
           (A) 100 11 10
                               (B)
                                     101 13 10
                                                    (C)
                                                           100 13 10 (D) 100 12 10
Q38
       Choose the correct option from the following coding:
          for i in range (1,10):
                   if i\%3 = =0:
                       continue
                   else:
                       print(i ,end= ' ')
           (A) 1,2,4,5,7,8,9 (B) 1 2 4 5 7 8
                                               (C) 124568
                                                                  (D) 1 2 3 4 5 6
```

Q39	An empty /null statement in Python is							
	(A) pass	(B) none	(C) null	(D) None				
Q40	Give the output for the following code.  >>> S='abc'  >>> A=input("enter a string")  enter a string abc  >>> S is A  (A) abc (B) True (C) 'abc' (D) False							
Q41.	Mala wants to make a fun program, if user enters any number, a Good or funny Message will appear. She is confused that which is the most suitable control to be used to make such program. Help her to choose correct option.  (A) if (B) if else (C) if elif (D) Nested if else							
Q42		of error do you exp	ect from the line of state Error (C) Value Error	ement int("Z10")				
Q43	Which of the following is False regarding loops in Python?  (A)Loops are used to perform certain tasks repeatedly.  (B)while loop is used when multiple statements are to executed repeatedly until the given condition becomes true.  (C)while loop is used when multiple statements are to executed repeatedly until the given condition becomes false  (D)for loop can be used to iterate through the elements of lists.							
Q44	Give the co >>> 7*8/5// (A) 4.0	rrect output. /2 (B) 7.0	(C) 5.0	(D) 6.0				
Q45	What will be a print(2*('No' (A) A (B) A (C) A	the output produce +3*'!')) No!!No!!	d by the following code					
Q46	Donation (A)(dona (B)donat (C)donat	in the range of 400 ation>=4000 and de tion>=4000 or donation>=4000 and (do	00-5000 or guest=1(Cho onation<=5000) or guest ation<=5000 or guest= onation<=5000 or guest= ation<=5000) or guest=	=1 ==1)				



questions. ONLY first 5 answers will be considered for evaluation.

A game is arranged between all the students of class - X, where the students will be distributed in sub-groups and different tasks will be given to them. As a Computer Science student, Vikash has been assigned the duty to make the sub-groups. Vikash has decided to collect the first letter of the name of every student and make a line out of that i.e. str1="starsofdavodisha". As a friend of Vikash from the same department you help him to complete the task successfully.



Q50	Write a python statement to make a sub-group by taking the first four characters					
	i.e. 'star' from the given line?					
	(A) str1[:3] (B) str1[:4] (C) str1[:5] (D) str1[:2]					
Q51	Find the sub-group generated from the code:->>> str1 [ 2 : 7 : 2 ]					
	(A) 'as' (B) 'asf' (C)'rod' (D)'aro'					
Q52	How will you make a sub-group as 'odisha'?					
	(A) str1 [ 10 : ] /str1[10:17 ] (B) str1 [ 8 : ] /str1[10:15 ] (C) str1 [ 7 : ] /str1[10:14 ] (D) str1 [ 10 : ] /str1[10:16]					
Q53	Which function Vikash can use to get the initial position of sub-string 'odisha'					
	from str1?					
	(A) str1.replace('odisha') (B) str1.find('odisha') (C) str1.find('odisha',-3) (D) str1.find('odisha',15)					
0.7.4						
Q54	Suggest the correct code snippet to get the line in reverse order.					
	(A) $str1[::-1]$ (B) $str1[0,15,-1]$ (C) $str1[-1,0,-1]$ (D) $str1[:-1]$					
Q55	Fill in the blank in Line1 to print the line with 1 <sup>st</sup> character in capital letter i.e.					
	'Computer science'.					
	(A) str1. capitalize() (B) str1.uppercase() (C) str1.title() (D) str1. titlecase()					