Exam ID				
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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	(A) (A+B)(A+B') (B) (A'+B)(A+B')
	$\begin{array}{ll} (A) & (A+B)(A+B') \\ (C) & (A'+B')(A+B) \\ \end{array} & \begin{array}{ll} (B) & (A'+B)(A+B') \\ (D) & (A+B)(A'+B') \\ \end{array}$
Q8	Which out of the following binary number is equivalent to decimal number 24(A) 11011(B) 11000(C) 11111(D) 11001
Q9	(A) 11011 (B) 11000 (C) 11111 (D) 11001 The octal equivalent of $(13)_{10}$ is (A) 18 (B) 14 (C) 15 (D) 16
Q10	Convert hexadecimal (FACE) ₁₆ to its equivalent binary (A) 1111101011001110 (B) 0011101011010011 (C) 110011111100011 (D) 101010101101111

Q11	(A) $(x+y').(x'+y)$ (B) $(x+y)+(x'y)$
	(C) $(x'+y).(x+y')$ (D) $(x'+y')(x'+y')$
Q12	The provides an unique number for every character for various deviceslike servers, desktop, mobile and operating system linux, windows, iOS or softwareapplication.(A) ASCII(B) ANSI(C) ISCII(D) UNICODE
Q13	What will be the size of the following constant ?"Nilima\'s Pen"(A) 12(B) 11(C) 13(D) 10
Q14	What do we use to define a block of code in Python language?A) Key(B) Brackets(C) Indentation(D) None of these
Q15	Which of the following is not a keyword in Python language?(A) for(B) if(C) try(D) Sum
Q16	Which of the following functions is a built-in function in python language?(A) val()(B) print()(C) fact()(D) None of these
Q17	Which of the following option is a core data type in the python language?(A) Dictionary(B) List(C) String(D) All of the above
Q18	Which of the following is not a valid identifier? (A) SUM (B) 1sum (C) sum_Marks (D) _Sum1
Q19	Name 2 modes available in Python Programming IDE?(A) Script and Interactive(B) Script and Immediate(C) One-Go and File(D) Script and One-Line

Q20	What is the output o	f this expression,	1*2**3**2	
L		(B) 512 ¹	(C)64	(D) 68
Q21	What will be returned >>> print(str(prin	t()) +"one")		-
	(A) None	(B) Noneone	(C) one	(D) 'Noneone'
Q22	Special meaning wo (A)Keywords	•	-	functionality are called (D) Literals
Q23	Which of the follow	wing is correct wa	ay to represent a	string literal in python.
	(A) $Monish$			(D)"Monish'
Q24	The input() returns	s the value as	type :	
	(A) integer	(B) list	(C) floating	(D) string
Q25	To print a line of to used with print()			ne, argument is
		(B) newline	(C) end	(D) next
			ECTION- B	
	This section consists this section. ONLY f		· /	mpt any 20 questions from
026				eu for evaluation.
Q26	Which one of the for >>> len(str(17/4))	nowing is expect	cu.	
		(B) 4	(C) 3 (I)	D) 2
Q27	What will be the out			
~	First1 =0		ing i juich couc	
	Second $1 = 1$			
	print(First1 ,Second	d1)		
	for elem in range(2	-		
	N1=First1+S			
	print(N1, en	d=",")		
	First1=Secon	nd1		
	Second1=N1	_		
	(A) 0,1,1,2,3,5,8,1	3,21 (B) 1,1,2,3	3,5,8,13 (C) 0,1,1	1,2,3,5,8,13, (D) 0,1,1,2,3,4,5,6,
Q28	if 4+5==10:			
	print("True")			
	else:			
	else: print("false")			
	print("false")			
	print("false") print("True")	false		

Q29	What will be the output of the following Python code?						
	str1="learn python"						
	str2=""						
	str2= str3=""						
	for x in str1:						
	if(x=="r" or x=="n" 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						
Q30	Predict the output of the following code:						
200	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						
Q31	(A) ok(B) okok(C) no output(D) none of thesePredict the output of the following code:						
QJI	i=1						
	while(i>0):						
	i + = 1						
	print(i)						
	(A) 6 (B) 100 (C) 10 (D)Infinite						
Q32	Consider the following code segment:						
202							
	a = int(input("Enter an integer: "))						
	b = int(input("Enter an integer: "))						
	if a <= 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")						
L							

	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	
Q35	What does the following Python program display if the input is entered as 'END (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	??

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')
0.25	(A) 1,4 (B) 2 (C) 2,4 (D) 4
Q37	import random
	r=random.randint(10,100)-10
	<pre>print(r, end= ' ')</pre>
	r=random.randint(10,100)-10
	<pre>print(r,end =' ')</pre>
	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
	(A) 100 11 10 (D) 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) 1 2 4 5 6 8 (D) 1 2 3 4 5 6

Q39	An empty /null statement in Python is				
	(A) pass	(B) none	(C) null	(D) None	
Q40	>>> S='abc'	ut for the following c ("enter a string") abc (B) True	code. (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		f error do you expect	t from the line of state or (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 correct output. >>> 7*8/5//2				
	(A) 4.0	(B) 7.0	(C) 5.0	(D) 6.0	
Q45	print(2*('No') (A) 1 (B) 1 (C) 1	+3*'!')) No!!No!!	by the following code	?	
Q46	Donation (A)(dona (B)donat (C)donat	in the range of 4000- ation>=4000 and donation>=4000 or donation>=4000 and (donation)	5000 or guest=1(Cho ation<=5000) or gues on<=5000 or guest= ation<=5000 or guest= ton<=5000) or guest=	=1 = =1)	

Q47	State which of the following statement are true.
	1. if, elif, else are not compound statement.
	 Else if can be used in python. Indentation while working with blocks is not necessary in python. A break statement is a jumping statement. It skips the rest code but executes the immediate line followed after the code.
	(A) 1 (B) 2,3 (C) 3 (D) 4
Q48	What will be the output of the following code Msg="CompuTer" Msg1=" for i in range(0, len(Msg)): if Msg[i].isupper(): Msg1=Msg1+Msg[i].lower() elif i%2==0: Msg1=Msg1+'*' else: Msg1=Msg1+Msg[i].upper() print(Msg1) (A) cO*P*t*R (B) Co*p*t*R (C) co*p*t*r (D) cOP*tR
Q49	Raju was solving a puzzle in which he wants to count the number of spaces. Help him to complete the following code.
	>>>str1=input("Enter the string") // Statement 1
	(A) print(str1.count('') + 1) (B) print(str1.count(''))
	(C) print(str1.cnt(``)) (D) print(str1.cnt(``)+1)
	(C) print(str1.cnt('')) (D) print(str1.cnt('')+1 Section-C Study based Questions. This section consists of 6 Questions (50 -55) Attempt ions. ONLY first 5 answers will be considered for evaluation.
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	Section-CSection-CStudy based Questions. This section consists of 6 Questions (50 -55) Attemptions. 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
	Section-CSection-CStudy based Questions. This section consists of 6 Questions (50 -55) Attemptions. 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] (C) str1 [7 :]/str1[10:14] (B) str1 [8 :]/str1[10:15] (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)				
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 st character in capital letter i.e.				
	'Computer science'.				
	(A) str1. capitalize() (B) str1.uppercase() (C) str1.title() (D) str1. titlecase()				