SET-3
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LUCKNOW REGION
CUMULATIVE EXAMINATION – 2023-24

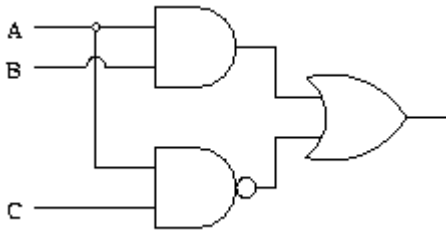**Class** : XI   **Subject**: Computer Science (083)
Time Allowed: 3 Hours   **Maximum Marks**: 70

General Instructions:

1. This question paper contains five sections, Section A to E.
2. All questions are compulsory.
3. Section A have 18 questions carrying 01 mark each.
4. Section B has 07 Very Short Answer type questions carrying 02 marks each.
5. Section C has 05 Short Answer type questions carrying 03 marks each.
6. Section D has 03 Long Answer type questions carrying 05 marks each.
7. Section E has 02 questions carrying 04 marks each.
8. All programming questions are to be answered using Python Language only.

	SECTION – A	
1.	Find the invalid identifier(s) from the following- (i) my_name (ii) _myname (iii) my-name (iv) my2name	1
2	Flash memory is a type of ……………….memory i) primary ii) RAM iii)secondary iv) all of these	1
3	Which of the following are keywords in Python: (i) Print (ii) in (iii) not (iv) While	1
4	Expand the following terms: (i) DVD (ii) PROM	1
5	Name any two operating system.	1
6	Which of the following is not a octal number: i) 435 ii) 786 iii)542 iii) 236	1
7	If the following code is executed , what will be the output- **st = "Mera#Bharat#Mahan"** **print(st[-12 :-6])**	1
8	What will be the result of following Python expression: **2**3**2//20**	1
9	Find the output of following code: (if 8 is entered for **x** and 3 is entered for y)	1

	x= input('Enter First Number ') y=int(input("Enter second number")) print(x*y)	
10	Find the output of following expression- 5* len("2.25") % 5	1
11	According to boolean law : X+1 =? i) X ii) 1 iii) 0 iv) $\overline{X}$	1
12	The hexadecimal digits are 0 to 9 and A to …………. i) E ii) F iii) G iv) D	1
13	Which of the following are jump statement : i) break ii) while iii) if iv)for	1
14	if L= ["These", ["are","a","few","words"],"that","we","will","use"] what does following expreseion evaluate to?: L[1:2]	1
15	MS-Office is an example of- i) System Software ii) Application Software iii) Utility Software iv) Customized Software	1
16	What is the role of ALU in Computer .	1
	Q17 and 18 are ASSERTION AND REASONING based questions. Mark the correct choice as (a) Both A and R are true and R is the correct explanation for A (b)Both A and R are true and R is not the correct explanation for A (c) A is True but R is False (d)A is false but R is True	
17	Assertion: In Boolean algebra, the OR operation is commutative. Reasoning: The commutative property of addition holds true in Boolean algebra, which means that A + B is equal to B + A for any two Boolean variables A and B.	1
18	Assertion(A): List is an immutable data type Reasoning(R): When an attempt is made to update the value of an immutable variable, the old variable is destroyed and a new variable is created by the same name in memory.	1
	SECTION – B	
19	Explain infinite loop with example .	2
20	What do you understand by variable. Write a statement for variable assignment.	2

21	Convert the following from given number system to required number system:	2
	(i) $(123)_8 = (?)_{16}$ (ii) $(ABC)_{16} = (?)_8$	
22	Sonu has written the code but the code is showing errors. Help Sonu and rewrite the code after making all necessary correction or change and underline each correction.	2
| | ```
city = mumbai
if city="jaipur":
    print("hot weather")
else if city =="shimla" :
    print("very cold ")
else
    print(city)
``` | |
23	Explain break statement with example. **Or** Explain type casting with example .	2
24	Write Boolean expression for the following circuit 	2

25	Re-write the following FOR Loop code using WHILE Loop to get same output-
	   for i in range (20 , 10, -3) :
	      print("hello")
		2

SECTION – C		
26	Draw the logic circuit diagram for: **AB + ((B+C). BC)**	3
27	Explain the identity operators in python with example ?	3
28	Explain internal and external memory .	3
29	Write a program to input radius of a circle and find its area and perimeter .	3
30	Write a program in Python to check whether a string is Palindrome or not. A string is said to be a palindrome if the reverse of the string is the same as the string. For example, "radar" is a palindrome**.**	3
SECTION - D		
31	What is list? Explain the difference between append () and extend() function with suitable example.	2+2+1=5
32	Write a Python program to print the following pattern. 54321 4321 321 21 1	5

33	Write a python program which accept two times (in hour and minute) as input and displays the total time after adding both the entered times. Sample **Input:** **Enter Time 1 :** **Hour : 2** **Minute : 40** **Enter Time 2 :** **Hour : 1** **Minute : 35** **Output:** **Total Time : 4 Hour & 16 Minute and 25 Second**	5
	SECTION - E	
34	State and Prove DeMorgans Theorem using Truth Table.	4

35	Write the output of following Python Statements
	
	    i) S="GOOD MORNING"
	           print(S.capitalize(),S.title())
	
	    ii) L=[ ]
	           for I in range(4):
	               L.append(2*i+1)
	           print(L)
		4

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