DAV BR PUBLIC SCHOOL, BINA
Practice Paper for HY Examination Session (2024-25)
Class XI Computer Science (083)

Time Allowed : 3 Hrs   **Maximum Marks : 70**
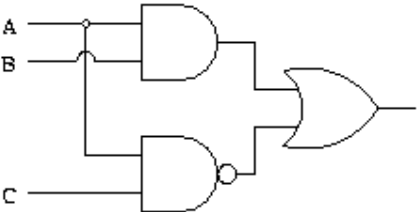
General Instructions:

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) x= input('Enter First Number ') y=int(input("Enter second number")) print(x*y)	1
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) 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	Write the output of the following statements: ```python for i in range(10): if(i%2!=0): print("Hello",i) ```	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):** if and for are legal statements in Python. **Reasoning(R):** Python is case sensitive and its basic selection and looping statements are in lower case.	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: i. $(123)_8 = (?)_{16}$ (ii) $(ABC)_{16} = (?)_8$	2
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
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 to calculate the electricity bill (accept number of unit from user) according to the following criteria : Unit Price First 100 units no charge Next 100 units Rs 5 per unit After 200 units Rs 10 per unit (For example if input unit is 350 than total bill amount is Rs2000)	3

SECTION - D

31	Write a program in python to find the factorial of a number.	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
i
	Write the output of following Python Statements
	    a = **True**
	
	    b = **False**
	
	    c = **False**
	
	    if a **or** b **and** c:
	
	        print ("Great")
	
	    else:
	
	        print ("Fabulous")
		4

ii	a = 4.5 b = 2 print (a//b)	