

INDIAN SCHOOL AL WADI AL KABIR

Unit Test 2025-26

SUB: Computer Science (083)

CLASS: XI Max. Mark: 30

Date: 22/05/2025 Time: 1 hour

General Instructions:

- 1. This question paper contains four sections, Section A to D.
- 2. All questions are compulsory.
- 3. Section A have 10 questions carrying 01 mark each.
- 4. Section B has 03 Very Short Answer type questions carrying 02 marks each.
- 5. Section C has 02 Long Answer type questions carrying 03 marks each.
- 6. Section D has 02 Long Answer type questions carrying 04 marks each.
- 7. All programming questions are to be answered using Python Language only.

	Question	
Q. No.	SECTION - A	Marks
1	A computer program that converts an entire program into machine language is called a/an a. Interpreter b. Compiler c. Linker	1
2	d. Simulator Antivirus is a type of which software? a. Application software b. Utility Software c. System Software d. Firmware	1
3	Which one of the following operators results in True/False? a. += b. /= c. != d. *=	1
4	Which of the following is/are not a valid identifier? a. Mybook b. @book cbook d. book#	1

		1
5	Which of the following forces an expression to be converted into specific type?	1
	a. Implicit type casting	
	b. Mutable type casting	
	c. Immutable type casting	
	d. Explicit type casting	
6	Which of the following is an invalid statement?	1
	a. $a=b=c=20$	
	b. a,b,c=10,20,30	
	c. a b c=20,30,40	
	d. a_b_c=20	
7	Which of the following is not a token?	1
,	a. keyword	
	b. identifier	
	c. expression	
	d. operator	
8		1
0	What will be the output of the following logic circuit?	1
	A	
	D	
	→ Y	
	a. (A+B)' + C'	
	b. (A + B). C'	
	c. (A. B)'+ C'	
	d. A'(B+C)	
9	Which of the following operator evaluates to True if the variable on either side of	1
9		1
	the operator points towards the same memory location and False otherwise?	
	a. is	
	b. and	
	c. or	
	d. in	
10	Identify the invalid Python statement out of the following options:	1
	a. print("Hi", 5, end = "\$")	
	b. print("Hi", sep="\$", 5)	
	c. print("Hi", 5, sep="\$")	
	d. print("Hi" * 5)	
	SECTION – B	
11	Find the output of the following code:	2
	a,b,c=6,8,4	
	a,b,c,a=c//2, b%3, a+3, c*2	
	c=a+10	
	print(a, b, sep='\$',end='#')	
	print(a, b, sep- \$,end- #) print(c)	
	primide)	

12	Prove the following expressions using Truth Table. i. $(a+b)' = a'$. b' ii. $x + x'y = x + y$	2
13	Explain the basic components of a computer system using a block diagram	2
13	SECTION - C	
1.4		
14	Do the following: i. $(8FD9)_{16} = ()_{8}$ ii. $(876)_{10} = ()_{2}$ iii. $(456)_{8} = ()_{10}$	3
15	a. Evaluate the following Expressions:	3
10	i. 14 % 3 *2 + 2**3**2 + 36/4*3	5
	ii. $7+4<8-2$ and not $(6/3 ==2)$ or $15!=15$ and $6*5>5**2$	
	b. Find the output of the following code:	
	<pre>b = False c = True if not a or b: print ("a") if not a or not b and c: print ("b") if not a or b or not b and a: print ("c") else: print ("d")</pre>	
	SECTION - D	
16	i. Write a python program to input a number and check whether it is an odd	4
10	number or not. if yes, check whether it is ending with 7 or not.	-r
	ii. Write python program to find the roots of a quadratic equation for which the	
	coefficients are entered by the user.	
17	•	4
1 /	i. Write a Python program to get distance from the user and print fare for the passenger according to the following criteria:	4
	Distance Fare (in Rs.)	
	first 20km 20 /Km	
	Next 20km 15 /Km	
	Next 50km 10/km	
	Above 6/Km	
	ii. Write a program to input 3 sides of a triangle (in cm) and print whether it is a scalene or isosceles or equilateral triangle.	