

KENDRIYA VIDYALAYA – BHU, VARANASI**MONTHLY TEST – AUGUST 2024****Class: XI****Subject: Computer Science****Max. marks: 40M****Time: 1.5 hours**

1.	What is the result of the expression $3 + 2 * 2$? A) 7 B) 10 C) 8 D) 5	1M
2.	Which operator is used to check if two variables are the same object i.e. point to same memory location? A) == B) is C) equals D) identical	1M
3.	What is the output of <code>bool(0)</code> in Python? A) True B) False C) 0 D) None	1M
4.	What is the result of $7 \% 2$ in Python? A) 0 B) 1 C) 2 D) 4	1M
5.	Else clause can be used with a for loop. State whether the statement is true or false.	1M
6.	What is the result of expression $64 / 8$ in python?	1M
7.	What is the result of below expression: <code>print(2**3**2)</code>	1M
8.	State whether the below datatypes are mutable or immutable: a. string b. list	1M
	Assertion and Reason Based questions 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	
9.	Assertion: - In Python, we can have empty statements, in addition to simple and compound ones. Reason: - None type represents the absence of any value.	1M
10.	Assertion: A print statement takes the control to next line in output by default after displaying the values. Reason: The sep parameter can be used to ensure that print statement does not take control to next line after displaying the value.	1M

Short/Long Answer Questions

11.	Elaborate the difference between break and continue statements with appropriate examples.	2M												
12.	Write a program to print first 10 numbers in Fibonacci series using for loop.	2M												
13.	Explain the term infinite loop, along with an example employing infinite while loop.	2M												
14.	Find the errors in below code and write the correct one: while x < 10 print(x) x =+ 1	2M												
15.	Print the output of below code: A=3 B=4 C=5 A,B,C=C+2,A+1,B-1 print(A,B,C) A,B=B,A print(A)	2M												
16.	Write a program to print below pattern: 55555 4444 333 22 1	3M												
17.	WAP to input the name and price of an item from user and calculate and display the discounted price of item in proper format. <table border="1"><thead><tr><th>Item Price</th><th>Discount %</th></tr></thead><tbody><tr><td>More than 50000</td><td>25%</td></tr><tr><td>20001 to 50000</td><td>20%</td></tr><tr><td>10001 to 20000</td><td>10%</td></tr><tr><td>5001 to 10000</td><td>5%</td></tr><tr><td>Less than 5000</td><td>0%</td></tr></tbody></table>	Item Price	Discount %	More than 50000	25%	20001 to 50000	20%	10001 to 20000	10%	5001 to 10000	5%	Less than 5000	0%	3M
Item Price	Discount %													
More than 50000	25%													
20001 to 50000	20%													
10001 to 20000	10%													
5001 to 10000	5%													
Less than 5000	0%													
18.	WAP to input a number from user and check if the number is Armstrong. Example: $153 = 1^3 + 5^3 + 3^3$ (i.e. sum of each digit raised to a power of number of digits)	4M												
19.	Explain in detail all the binary operators i.e. the operators acting on 2 operands, with appropriate examples.	5M												
20.	Print the output of below: a) "She" and "It" b) 25 or 9 c) 62.1 % 7 d) $81 + 7 * 56 / 8 - 21 * (3-1)$ e) ord("B")	5M												