

# PRAGYA GIRLS SCHOOL



## Half Yearly Examination

Name: \_\_\_\_\_

Roll No. \_\_\_\_\_

Date: 27/09/2023

Duration: 03 Hours

Subject: Informatics Practices

Academic Session: 2023-24

Grade: XI

Maximum Marks: 70

### General Instructions:

1. This question paper contains five sections, Section A to E.
2. All questions are compulsory.
3. Section A has 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 02 questions carrying 04 marks each.
7. Section E has 03 questions carrying 05 marks each.
8. All programming questions are to be answered using Python Language only.

Q. No.	Section A	Marks
1.	<b>Fill in the blank:</b> _____ is a language translator which reads a program line-by-line when run. a. Compiler b. Assembler c. Transmitter d. Interpreter	1
2.	<b>What will the expression <math>2**2**2</math> be evaluated to in Python?</b> a. 16 b. 128 c. 64 d. 8	1
3.	<b>In a SD card, the letter SD stands for .....</b> a. Secure Device b. Secure Digital c. Storage Device d. Standard Device	1
4.	<b>The term bit is an abbreviation for the expression _____ ?</b>	1
5.	<b>Which is the default python command prompt?</b> a. <<< b. <<< c. >>>> d. <<<<	1
6.	<b>Predict the output of the following python code:</b> >>>for i in range(1,11,2): print(i, end=" ")	1
7.	<b>Which of the following is a valid data type in Python?</b> a. Real b. Floating Point c. Decimal d. Letter	1
8.	<b>What is the extension of python program file?</b>	1
9.	<b>Operating System is an example of:</b> a) Application Software b) System Software c) Utility Software d) None of the above	1
10.	<b>DVD is a type of .....memory.</b> a) Primary b) RAM c) Secondary d) All of these	1

11.	<b>Which of the following memory types cannot store the data or information permanently? a) Flash memory b) RAM c) DVD d) Hard disk</b>	<b>1</b>
12.	<b>Which of the following are valid identifier(s)?</b> a. roll no b. _rollno c. roll_no d. roll-no e. rollno f. num01	<b>1</b>
13.	<b>Which of the following is an escape sequence for a newline character?</b> a. \a b. \t c. \b d. \n	<b>1</b>
14.	<b>What values are generated when the function list(range(8,0,-2)) is executed?</b> a. [8,4] b. [8,4,2,0] c. [8,6,4,2,0] d. [8,6,4,2]	<b>1</b>
15.	<b>What is the output produced when this code executes?</b> k=0 for i in range(4,8): if i%2 ==0: k=k+i print(k) a. 4 b. 8 c. 10 d. 18	<b>1</b>
16.	<b>If L=[1,2] then L*2 will yield:</b> a. [1,2]*2 b. [1,2,2] c. [1,1,2,2] d. [1,2,1,2]	<b>1</b>
17.	<b>Given a list L = [10,20,30,40,50,60,70,80], what would L[-3:99] return?</b> a. [20,30,40] b. [30,40,50] c. [40,50,60] d.[60,70,80]	<b>1</b>
18.	<b>What is the output when we execute list("hello")?</b> a.['h','e','l','l','o'] b. ['hello'] c.['olleh'] d.['llo']	<b>1</b>
<b>Section B</b>		
19.	<b>What will be the output of the following Python code?</b> x, y=4, 2 while(x>=y): print(x, y) x=x-1 y=y+1 a) 4, 2 b) Invalid syntax c) 2, 4 d) Error 3, 3 3, 3	<b>2</b>
20.	<b>What is the result of this statement:</b> >>>10>5 and 7>12 or not 18>3 a) 10 b) True c) False d) None	<b>2</b>
21.	<b>(a) What will be the output of the following Python code?</b> >>> print(math.ceil(55.1)) <b>(b) Which python module required to run above code successfully?</b>	<b>2</b>
22.	<b>What is token? Name various types of token.</b>	<b>2</b>
23.	<b>What will be the output of the following Python code?</b> >>> a=72.55 >>> b=10 >>> c=int(a+b ) >>> c a) 72.55 b) 72 c) 82 d) None of these	<b>2</b>
24.	<b>How the pop ( ) function is different from remove ( ) function working with list in python ?</b>	<b>2</b>
25.	<b>What is mutable and immutable data objects in Python? Name any one of each type.</b>	<b>2</b>

Section C		
26.	<b>What will be the output of following code-</b> 1. <code>&gt;&gt;&gt;a={i: 'Hi!' + str(i) for i in range(5)}</code> <code>&gt;&gt;&gt;a</code> 2. <code>&gt;&gt;&gt; a={i: i*i for i in range(6)}</code> <code>&gt;&gt;&gt;a</code> 3. <code>&gt;&gt;&gt;dict1 = {"key1":1, "key2":2}</code> <code>&gt;&gt;&gt;dict2 = {"key2":2, "key1":1}</code> <code>print(dict1 == dict2)</code>	3
27.	<b>Rewrite following code after removing errors (if any):</b> <code>N=100</code> <code>A= "Number" +5</code> <code>B= 2N +20</code> <code>Print(B)</code>	3
28.	<b>Write a program to print following series -</b> 2,4,8,16, ..... <i>Expected Output:</i> Enter the terms=5 2,4,8,16,32,	3
29.	<b>What is difference between break and continue statement in Python explain with an example.</b>	3
30.	<b>Find the output of the following code:</b> <code>&gt;&gt;&gt; L=["These", "are", "a", ["few", "words"], "that", "we", "will", "use"]</code> <code>&gt;&gt;&gt; print (L[3:4])</code> <code>&gt;&gt;&gt; print (L[1:4:-1])</code> <code>&gt;&gt;&gt; print ("few" in L)</code> <code>&gt;&gt;&gt; print (L[0::2])</code> <code>&gt;&gt;&gt; print (L[4:])</code> <code>&gt;&gt;&gt; print (L)</code>	3
Section D		
31.	<b>What will be the output of the following code?</b> i. <code>type(34)</code> ii. <code>a, b=10,20</code> <code>a, b= b, a+b</code> <code>print(a, b)</code> iii. <code>a=20 + 4j</code> <code>print(a.real + a.imag)</code> iv. <code>print(10,20,30, sep='*',end='@')</code>	4
32.	<b>1. Write a python program to print a sum of series up to 10 integers using for loop.</b> <b>2. Write a program to input a list of numbers and find the smallest and largest number from the list.</b> <i>Expected Output:</i> how many elements to be entered: 4 enter elements : 1 enter elements : 2 enter elements : 5 enter elements : 4 Largest element in the list is 5 Smallest element in the list is 1	4

**Section E**

<b>33.</b>	<b>What will be the output of the following python code?</b> <b>(a)</b> [11, 14, 18, 10, 15] <b>(b)</b> ['P', 'Y', 'T', 'H', 'O', 'N'] <b>(c)</b> L1.insert(0,12) <b>(d)</b> L1.sort() <b>(e)</b> L1.remove(14) <b>(f)</b> L1.append(5) <b>(g)</b> L2.pop() <b>(h)</b> L1+L2 <b>(i)</b> L1.extend([12,16,18]) <b>(j)</b> L1*2	<b>5</b>
<b>34.</b>	<b>Explain the following :</b> 1. What is syntax error? Give one example. 2. What is the difference between '=' and '=='? Explain with the help of an example. 3. What do you understand by precedence of operators? What is the precedence of arithmetic operators?	<b>5</b>
<b>35.</b>	a. Write a Python program to create a dictionary to store names of states and their capitals. b. Write a Python program to create a third dictionary from two dictionaries in the way so that the values are shown in third dictionary.	<b>5</b>