



Date:09/12/2024 GRADE: XI	TERM II EXAMINATION-2024-25 INFORMATICS PRACTICES(065)	Max marks:70 Time: 3 Hour
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General Instructions:

1. This question paper contains five sections, Section A to E.
2. All questions are compulsory.
3. Section A have 21 questions carrying 01 mark each.
4. Section B has 07 Very Short Answer type questions carrying 02 marks each.
5. Section C has 03 Short Answer type questions carrying 03 marks each.
6. Section D has 02 Long Answer type questions carrying 05 marks each.
7. Section E has 04 questions carrying 04 marks each.

Qn.No	SECTION A	Marks
1.	State True or False "Python is a cross platform and case sensitive language."	1
2.	Identify the valid variable name. a) stud_no b) stud num c) 1studnum d) stud-num	1
3.	What will be the output of the following python list operation? data =[10,20,30,40,20,60,70] print(count(20)) a) [20] b) 2 c) 3 d) [10,20,30,40,70]	1
4.	Keys of a dictionary must be _____. a)Similar b)Unique c) Odd numbers d)Even numbers	1
5.	What will be the output of the following? A=[1,2,3,4,5,6,7,8,9] print(A[::3]) a) [1,4,7] b)[8,9] c) [1,3,5,7,9] d) [1,2,3]	1
6.	To create an empty list we use . a) l =[] b) l="" c) l=[1,2] d) l=()	1
7.	What will be the output of the following? A=list("India") print(A) a) ("I","n","d","i","a") b) ["India"] c) ["I","n","d","i","a"] d) None of the above	1

<p>Q20 and 21 are ASSERTION AND REASONING based questions. Mark the correct choice as</p> <p>(a) Both A and R are true and R is the correct explanation for A</p> <p>(b) Both A and R are true and R is not the correct explanation for A</p> <p>(c) A is True but R is False</p> <p>(d) A is false but R is True</p>		
20.	<p>Assertion : List datatype in python contain items of different datatypes and are separated with a comma(,).</p> <p>Reason: <code>itemlist=('Bread',6,5.5,'A')</code> is an example of a list datatype.</p>	1
21.	<p>Assertion: Indentation is a very important aspect to build the structure of a program.</p> <p>Reason: Indentation refers to the white spaces and tabs that are used at the beginning of a statement to form a block of code. Multiple statements with the same indent are called a block of code.</p>	1
SECTION B		
22.	<p>Rewrite the following code in Python after removing all syntax error(s). Underline each correction done in the code.</p> <pre> Num == 20 for i in range(1,Num,3) if i%2=0: print(i*2) Else print(i*3) </pre>	2
23.	<p>What will be the output of the following string operation?</p> <pre> list=['H','E','L','L','O','@','P','Y','T','H','O','N'] print(list[2:10:2]) print(list[6:1:-1]) print(list[3:8]) print(list[-8:-2:2]) </pre>	2
24.	<p>What are the features of python programming?</p>	2
25.	<p>a) Define Artificial Intelligence</p> <p>b) Define BigData</p>	2
26.	<p>a) Write a python program to read two numbers and print the largest among two numbers.</p> <p style="text-align: center;">OR</p> <p>b) Write a python program to read a list <code>l=[10,20,30,40]</code> ,and add element 50 into the list.</p>	2
27.	<p>Predict the output of the following.</p> <p>a. <code>for i range(20,30,2):</code> <code>print(i*2)</code></p> <p>b. <code>L=[1,2,3,4,5,6,7,8,9,10]</code> <code>del L[3:]</code> <code>L[1]=22</code> <code>print(L)</code></p>	2

28.	Write a python program to accept a number from the user and test whether it is negative, positive or zero. Display appropriate message.	2
SECTION C		
29.	a) Write a python program to print the grade of a student. Read a mark first if the mark is greater than 95 the grade is A, the mark is in between 80 to 95 grade is B , the mark is in between 70 to 80 grade is C and less than 70 is D. b) Draw a flowchart for the same.	3
30.	Differentiate assembler, compiler and interpreter.	3
31.	a) What is a dictionary? Write a statement in Python to declare a dictionary named month whose keys are Jan, Feb, Mar and values are 31, 28, 30 respectively. b) find output : <pre>x = 3 if x == 0: print ("Am I learning python?", end = ' ') elif x == 3: print("Or learning python?", end = ' ') else : print ("Or learning python 4 cbse?") print("yes python is Free software")</pre>	3
SECTION D		
32.	i. What is the output of the following code snippet? <pre>x = [10,20,30,40] for i in x: if i%2==0: print(i)</pre> ii. <pre>a=2 b=3 a,b=b+5,b-1 print(a,b)</pre> iii. <pre>a=[1,2,3] print(a*3)</pre> iv. <pre>a={"mango","apple"}:"mango",("apple","banana"):"apple"} print(a["mango","apple"])</pre> v. <pre>l=[12,3,22,"Rachana","Sagar"] print(l[:-2])</pre>	5
33.		5

	Explain about the different generations of computer.	
SECTION E		
34.	<p>Consider the following dictionary StateCapital:</p> <pre>stateCapital={"Assam":"Guwahati","Bihar":"Patna","Maharashtra":"Mumbai","Rajasthan ":"Jaipur"}</pre> <p>Find the output of the following statements:</p> <p>a) print(stateCapital.get("Bihar")) b) print(stateCapital.keys()) c) print(len(stateCapital)) d) del stateCapital["Assam"]</p>	4
35.	<p>I. Give the data type of the following variables:</p> <p>a) n='Reva' b) t=13+6j c) val=[100,98,99,'ajit'] d) dt=('jan','june',5,6)</p> <p>II. Write the output of the following code:</p> <pre>s= 0 for i in range (10,2, -2): s = s + i print ("sum is = ", s)</pre>	4
36.	<p>Find out the output of the following programs.</p> <p>a) num=7</p> <pre>for a in range (1,11): print(num,"X",a,"=",num*a)</pre> <p>b) a=5</p> <pre>while a>0: print("hello") a=a-3 print ("loop over")</pre>	4
37.	What are operators? Explain different operators and write an example program.	4

*****END*****

