

Date:09/12/2024 GRADE: XI

TERM II EXAMINATION-2024-25 INFORMATICS PRACTICES(065)

Max marks:70 Time: 3 Hour

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	1
	"Python is a cross platform and case sensitive language."	
2.	Identify the valid variable name.	1
	a) stud_no b) stud num c) 1studnum d) stud-num	
3.	What will be the output of the following python list operation?	1
	data =[10,20,30,40,20,60,70] print(count(20))	
	a) [20] b) 2 c) 3 d) [10,20,30,40,70]	
4.	Keys of a dictionary must be	1
	a)Similar b)Unique c) Odd numbers d)Even numbers	
5.	What will be the output of the following?	1
	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]	
6.	To create an empty list we use .	1
	a) =[] b) ="" c) =[1,2] d) =()	
7.	What will be the output of the following? A=list("India") print(A)	1
	a) (``I",″n",″d",″i",″a") b) [``India"] c) [``I",″n",″d",″i",″a″] d) None of the above	

8.	command is used to remove the last item from the list.	1
	a)remove() b)pop() c)del d)popitem()	
9.	refers to the ability of machines to perform cognitive task likethinking ,perceiving,learning,problem solving and decision making.	1
10.	a)Artificial Intelligence b) Virtual Reality c)Cloud computing d)NLP	1
10.	What is the value of an expression $100/25$.	
11.	a) 4 b) 4.0 c) 2.5 d) none of these Which of the following is not used as loop in Python?	1
	which of the following is not used as loop in Fythom.	-
	a) for loop b) while loop c) do-while loop d) both a and b	
12.	How many times will the loop run?	1
	i=2	
	while(i>0):	
	i=i-1	
13.	a) 1b) 3c) 0d) 2Which is the smallest unit of information?	1
15.		1
	a) A bit b) A byte c) A block d) A nibble	
14.	Python code can run on a variety of platforms, it means Python is a	1
	language.	
	a)Graphical b) Cross-platform c)independent d) all of these	
15.	The mode of Python gives instant result of typed statement.	1
	a) Intractive b) Script c) Both a and b d) None of these	
16.	technology makes users feel as if they truly are in a virtual environment.	1
	a) NLP b) AR c) VR d) ML	
17.	are programable machines that are able to cary out actions	1
	autonomously.	
	a) Grids b) clouds c)Robotics d)Robots	
18.	Dictionaries are data types of Python.	1
10	a) mutable b) immutable c) simple d)all of these	
19	Names given to different parts of a Python program are	1
	a) Functions b) identifiers c) Keywords d) literals	

Q20 a	nd 21 are ASSERTION AND REASONING based questions. Mark the correct choice	e as
(a) Bo	th A and R are true and R is the correct explanation for A	
(b) Bo	th A and R are true and R is not the correct explanation for A	
• •	s True but R is False	
(d) A i	s false but R is True	
20.	Assertion : List datatype in python contain items of different datatypes and are separated with a comma(,). Reason: itemlist=('Bread',6,5.5,'A') is an example of a list datatype.	1
21.	 Assertion: Indentation is a very important aspect to build the structure of a program. 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. 	1
	SECTION B	
22.	Rewrite the following code in Python after removing all syntax error(s). Underline each correction done in the code. Num == 20 for i in range(1,Num,3) if i%2=0: print(i*2)	2
	Else	
	print(i*3)	
23.	What will be the output of the following string operation? list=[`H','E','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])	2
24.	What are the features of python programming?	2
25.	a) Define Artificial Intelligenceb) Define BigData	2
26.	 a) Write a python program to read two numbers and print the largest among two numbers. OR b) Write a python program to read a list I=[10,20,30,40] ,and add element 50 	2
	into the list.	
27.	Predict the output of the following. a. for i range(20,30,2): print(i*2) b. L=[1,2,3,4,5,6,7,8,9,10] del L[3:] L[1]=22	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.	3
	b)Draw a flowchart for the same.	
30.	Differentiate assembler, compiler and interpreter.	3
31.	a)What is a dictionary? Write a statement in Python to declare a dictionary named month	3
	whose keys are Jan, Feb, Mar and values are 31, 28, 30 respectively.	
	b)find output :	
	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")	
	SECTION D	
32.	i. What is the output of the following code snippet?	5
	x = [10, 20, 30, 40]	
	for i in x: if $i\%2==0$:	
	print(i)	
	ii. a=2	
	b=3	
	a,b=b+5,b-1	
	print(a,b)	
	iii. a=[1,2,3]	
	print(a*3)	
	<pre>iv. a={("mango","apple"):"mango",("apple","banana"):"apple"} print(a["mango","apple"])</pre>	
	v. I=[12,3,22,"Rachana","Sagar"]	
	print(I[:-2])	
33.		5

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