

SET 1

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Class: XI Session: 2023-24

Informatics Practices (065)

Class XI Half Yearly SESSION 2023-24

Maximum Marks: 70

Time Allowed: 3

hours

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 03 Long Answer type questions carrying 05 marks each.
7. Section E has 02 questions carrying 04 marks each. Internal choice is given in Q34 for part c only.
8. All programming questions are to be answered using Python Language only.

	SECTION A	
1.	Which is bigger: MB or KB?	1
2.	Which of the following is valid identifier? a) Serial no. b) total-Marks c) Percentage d) Hundred\$	1
3.	Which of the following is valid string? a) '10' b) 10 c) 'hello' d) 'hello'	1
4.	What will be the output of following expressions: (1**3)**2	1
5.	Consider the following program and predict the output: num1 = input("Enter a number and I'll double it: ") #num1=3 num1 = num1 * 2 print(num1)	1
6.	Write any two keywords.	1
7.	The input() returns the value as _____ type. a) int b) complex c) string d) float	1
8.	Which of the following can be used to create comments? a) // b) # c) ''' d) """ _____ """	1

9.	What will be the output of following expression? (5<10) and (10<5) or (3<18) and not 8<18	1
10.	What will be the output of this code >>>L1=[1,'orange'] >>>L1*2	1
11.	Repetition of data is called _____.	1
12.	Mismatched redundant copies of data is known as data _____.	1
13.	A _____ is an organised collection of structured data.	1
14.	State True/False A file based system enforces standardised data.	1
15.	State True/False Separate application programs are written to refer to data in file based system.	1
16.	Name any two RDBMS softwares.	1
	Q17 and 18 are ASSERTION AND REASONING based questions. Mark the correct choice as (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	
17.	Assertion(A): In Python, unlike other types, you can change elements of a list in place. Reason(R): Lists are mutable sequences.	1
18.	Assertion(A): Values of a dictionary can be searched using in/not in operators. Reason(R): The membership operators do not work with dictionary's values.	1
	SECTION B	
19.	Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code. 30=n for i in range(0,n) IF i%4==0: print (i*4) Else: print (i+4)	2
20.	WAP to calculate area of a rectangle of given integer length and breadth.	2
21.	(a) Given is a Python string declaration: Str1=['NEET','EXAMINATION','2023'] Write the output of: print(Str1[::-1]) (b) Write the output of the code given below: D1 = {"sname": "Aman", "age": 26} D1['age'] = 27 D1['address'] = "Delhi" print(D1.items())	2
22.	How is del D and del D[<key>] different from one another if D is a dictionary?	2
23.	How are lists different from the strings when both are sequences?	2

24.	What is the difference between compiler and interpreter?	2												
25.	Explain the working of following:- a) RAM b)ROM c) Cache memory d) Secondary memory	2												
SECTION C														
26.	L is a non-empty list of integers. Print the smallest and largest integer in L.	3												
27.	What is the difference between append() and extend() functions ? explain with example.	3												
28.	Assume the list: Lst1= ['a', 'e', 'i', 'o', 'u'] What would be displayed by the following expressions. >>> Lst1[2:5:2] >>> Lst1[2: -5: -2] >>> Lst1[2: -5 :2]	3												
29.	Write a python program to create a dictionary from a string 'w3resource' such that each individual character makes a key and its index value for first occurrence makes the corresponding value in dictionary. e.g. {'w':0,'3':1,'r':2,'e':3,'s':4,'o':5,'u':6,'c':8}	3												
30.	How are dictionaries different from lists? Explain with example.	3												
SECTION D														
31.	“Akanksha Student of class XI(IP) wants to setup computer system for her daily work, she doesn't have any money to purchase software but has a computer set, help her to setup the system for that she needs free software” a) A free OS. b) A free office software. c) A free antivirus software. d) A python language processor. e) A free database software.	5												
32.	a) WAP to add the odd numbers up to a given value N and print the result. b) WAP to input three numbers and display the largest/smallest number.	2+3												
33.	Write the most appropriate list method to perform the following tasks. a) Delete a given element from the list. b) Delete 3 rd element from the list. c) Add an element of a list in the end of the list. d) Add an element in the beginning of the list. e) Add elements of a list in the end of a list.	5												
Section E														
34.	Four computer terms and eight descriptions are shown below. Draw lines to connect each computer term to the correct description(s). <table><tr><td>Computer term</td><td>Description</td></tr><tr><td>Arithmetic and logical unit(ALU)</td><td>Data can be read but not altered</td></tr><tr><td>Control Unit</td><td>Performs operations</td></tr><tr><td>Random Access Memory(RAM)</td><td>Stores bootstrap loader and BIOS</td></tr><tr><td>Read Only Memory(ROM)</td><td>Fatches next instruction in turn</td></tr><tr><td></td><td>Carries out operations such as AND, OR, NOT</td></tr></table>	Computer term	Description	Arithmetic and logical unit(ALU)	Data can be read but not altered	Control Unit	Performs operations	Random Access Memory(RAM)	Stores bootstrap loader and BIOS	Read Only Memory(ROM)	Fatches next instruction in turn		Carries out operations such as AND, OR, NOT	1+1+1+1
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		Stores part of the OS currently in use	
		Manages execution of each instruction	
35.	<p>Observe the line of code given below and write down the value that will be output by python.</p> <pre>>>>a=10 >>>b=20 >>>c=a+b >>>a+5 _____ (i) >>>a+b _____ (ii) >>>b=b+1 >>>c _____ (iii) >>>a+b _____ (iv)</pre>		1+1+1+1