Marking Scheme 2023-2024 Class :XI Subject: Computer Science(083)

	Section A	Marks
1.	b. True	1
2.	b. Anti Virus	1
3.	a. K[5]= "e"	1
4.	c. RAM	1
5.	c. XOR	1
6.	b. American Standard code for Information Interchange	1
7.	b. (22,44,66)	1
8.	(i) Options a,c,d only	1
9.	c. import math print(math.pow(12,4))	1
10	a. 18	1
11	a. del D1["input"]	1
12	a. copyright infringement	1
13	c. To create targeted advertisements based on user interests	1
14	b. True	1
	True	
15	c. Trojan Horse	1
16	c. To prevent environmental pollution and health hazards	1
17	d. A is False but R is True	1
18	a. Both A and R are True and R is the correct explanation of A.	1
-	Section B	
19	Interpreter: a, c	1 mark each for
	Compiler: b, d	correct identification of options for Interpreter and
	OR a. UTF 8 and UTF 32	compiler OR ½ mark each for correct encoding scheme.

	b. PB,TB,GB,KB		1	
20	A = int(input("Enter First Number: "))	½ mark for each		
	B = int(input("Enter Second Number: "))		correction	
	Op = input("Enter Operator")	#Error 1		
	if Op = ="+":	# Error 2		
	C = A + B			
	<u>elif</u> Op == "-":	# Error 3		
	C = A - B			
	else <u>:</u>	#Error 4		
	C = "Invalid operator entered"			
	print("Result = ",C)			
21	Implicit Type Conversion	Explicit Type Conversion	(½ mark for	
	Also known as coercion	Also called type casting	each correct	
	Data type conversion is done automatically by	Data type conversion is explicitly	explanation of	
	Python and is not instructed by the	done by programmer.	Implicit type	
	programmer.		conversion and	
	Example:	Example:	explicit type	
	num1 = 10 #num1 is an integer	num1 = 10	conversion)	
	num2 = 20.0 #num2 is a float	num2 = 20	(½ mark for	
	<pre>sum1 = num1 + num2 #sum1 is sum of a</pre>	num3 = num1 + num2	each correct	
	#float and an integer	print(num3)	example of	
	print(sum1)	print(type(num3))	Implicit type	
	print(type(sum1))	num4 = float(num1 + num2)	conversion and	
		print(num4)	explicit type	
		print(type(num4)	conversion) OR	
	OP	UK		
OR			1	
	(23)		1	
	a. 0 ==(2==3) b. 3+(4==4)+5==9			
	$5. 5. (4 - 4) \cdot 5 - 5$			
22	a. General Public Licence		1/2+1/2	
•	Intellectual Property Right			
	b. (i) Inform Himanshu so that he may change his pa	assword.	1	
23	a. 1903		1	
•	b. 562.54		1	
	OR			
1	A			
1			2	
	B •	Z		
1				
1)•Y			
	A •			
24	a. 3#4#5#		2	
	OR			
L				

		1⁄2 *4=2
	a. 9	
	b. 1024	
	c. 27.2	
	d. 3	
25	G1=A+B	1 mark for (A+B)
•	G2=(AB)'	1 mark for (AB)'
	G3=(A+B)(AB)'	
	Section C	
26	str1=input("Enter a string")	½ -Input
	L=[]	½-loop
	length=len(str1)	1-if
	for i in range(length):	½- adding to
	if str1[i].isupper():	list
	L.append(i)	½ for print
	print(L)	
	OR	
	OK OK	½-split words
	Str1="Ubuntu is an Open Source Operating System"	½-loop
L=Str1.split()		1-if
	for word in L:	½ -print in
	if word[0]=='O':	reverse order
	print(word[::-1],end=" ")	½ – print
	else:	normally
	print(word,end=" ")	

27		½ -start, stop
	sum=0 input n if n>0 yes sum=sum+n yes	 ½-start, stop ½-Initialization of sum ½-Input ½ for each Loop and Checking the number is greater than 0 ½- print
28	ND-*34	½*6=3
29	a. make , use or sell (any 2)	1/2+1/2=1
	 b. Oversharing can have several consequenses: a. Privacy risks: When you share too much personal information online, you may inadvertently expose yourself to identity theft, fraud, or other forms of cybercrime. b. Cyberstalking and harassment: Oversharing can make you more vulnerable to cyberstalking, online harassment, or even real-life threats if someone with malicious intent gains access to your personal information. c. Employment and Academic consequences: Employers and educational institutions may review social media profiles during the hiring or admissions process. d. Targeted Advertising and data mining: Social media platforms and other companies often use the data you share to target you with advertisements and promotions. 	1+1 (any two points)
30	units=int(input("Enter the number of units")) if(units>=0 and units<=49): bill=units*0.50 elif(units>=50 and units<=99): bill=units*0.75 print(bill) elif(units>=100 and units<=199): bill=units*1.20	 ½- input units ½ -for each ifelif i.e 2 marks ½ -for calculating surcharge

	2if(unite > -200)			
	elif(units>=200): bill=units*1.50			
	surcharge=bill*0.20 totalBill=surcharge+bill			
	totalBill=surcharge+bill print("The Surcharge is",surcharge) print("The Total bill is",totalBill)			
	• ``			
	Section D			
31	a. 3 times	2		
	b. Str1=" Programming"	2		
	l=len(Str1)			
	i=0			
	while i <l:< th=""><th></th></l:<>			
	print(Str1[i])			
	i=i+1			
32	a. round(): It is a built-in Python function used to round a floating-point	(½ mark for		
	number to a specified number of decimal places. The round() function takes	each correct		
	two arguments: the first is the number you want to round, and the second	explanation of		
	(optional) argument is the number of decimal places you want to round to. If	built-in		
	the second argument is not provided, the number is rounded to the nearest	functions		
	whole number.	round() and		
	Example:>>>round(3.7) evaluates to 4	int())		
		(¹ / ₂ mark for		
	int(): It is a built-in Python function used to convert a real number to an	each correct		
	integer (a whole number without any decimal points). When you pass a	example of		
	floating-point number to int(), it truncates the decimal part and returns the	round() and		
	whole number component.	int())		
	Example:>>>int(3.7) evaluates to 3			
	b. (i) import math			
	fl=math.sqrt(a*a+b*b+c*c)	1		
	(ii) import math			
	f2=p+q/(math.pow((r+s),4))	1		
	Section E			
33	a. (i) 11	1		
	(ii) True	1		
	('progra', 'm', 'ming is Fun')	1		
	b. str1="VaSudhaiva KutumBakam"	½ — loop		
	uc=0	½ - isupper()		
	lc=0	½ -islower()		
	for i in str1:	½-for counting		
	if i.isupper():	characters		
	uc=uc+1			
	elifi.islower():			
	lc=lc+1			
	print("Upper Case Characters=",uc)			
	print("Lower Case Characters=",lc)			

34	a dict 1	={"2":"Two","3":"Three","5":"Five","7":"Seven","11":"Eleven"}	1
54	b. dict 1		1
	c. "7" in		1
		lict_1["5"])	1
	-	can delete an item with a chosen key while popitem will remove only	1
		at entered item from the dictionary.	
		ble: dict_1.popitem() returns ('11', 'Eleven')	
	Lyanı		
		dict_1.pop('2') returns 'Two' OR	
	a. Patna	1	
		eys(['Karnataka', 'Haryana', 'Sikkim', 'Bihar'])	1
		ems([('Karnataka', 'Bangalore'), ('Haryana', 'Chandigarh'), ('Sikkim',	1
	_	:ok'), ('Bihar', 'Patna')])	-
	d. 4		1
	e. False		1
35		nere is a discrepancy as the domain spelling is different in the mail.	1
		g on the link may install malware on the laptop which record all the	
		ressed and send to hacker.	1
	(c) Points		
		o not click on any link or download any file from untrusted source	1
		not respond or provide any information to unknown source.	
	2. 00		
	(d) Yes, ei	mail is an example of cyber crime. It is a type of email spoofing as here	
	• •	mail address is used and students presumes it to be from an authentic	
	source	-	2
		OR	2
			1
	(a) A digit	al footprint refers to the trail of data and information that individuals	
		behind while using the internet. It includes all the actions, interactions,	
		ontent they create or engage with online. This data can be collected,	
		, and analyzed by various entities, including websites, social media	
	•	ms, advertisers, and even governments	1
		digital foot prints, Passive digital footprints	1
	. ,	allenging to completely erase a digital footprint since data can be	Ţ
		in various databases and archives. However, individuals can take steps	
	to min	imize their digital footprint, such as deleting unnecessary accounts,	
	reques	sting data removal from certain platforms, and being cautious about	
	what t	hey share online.	
	(d) Emplo	yers and colleges might use digital footprints to gain insights into an	1
	applica	ant's character, behaviour, and qualifications. They might review social	
		profiles, online portfolios, and professional networking sites to assess	
		ividual's suitability for a position or academic program.	
		te servers, social media platforms, search engines, online accounts,	1
		es and tracking mechanisms , mobile app.	