Marking Scheme 2024-2025

Class :XI

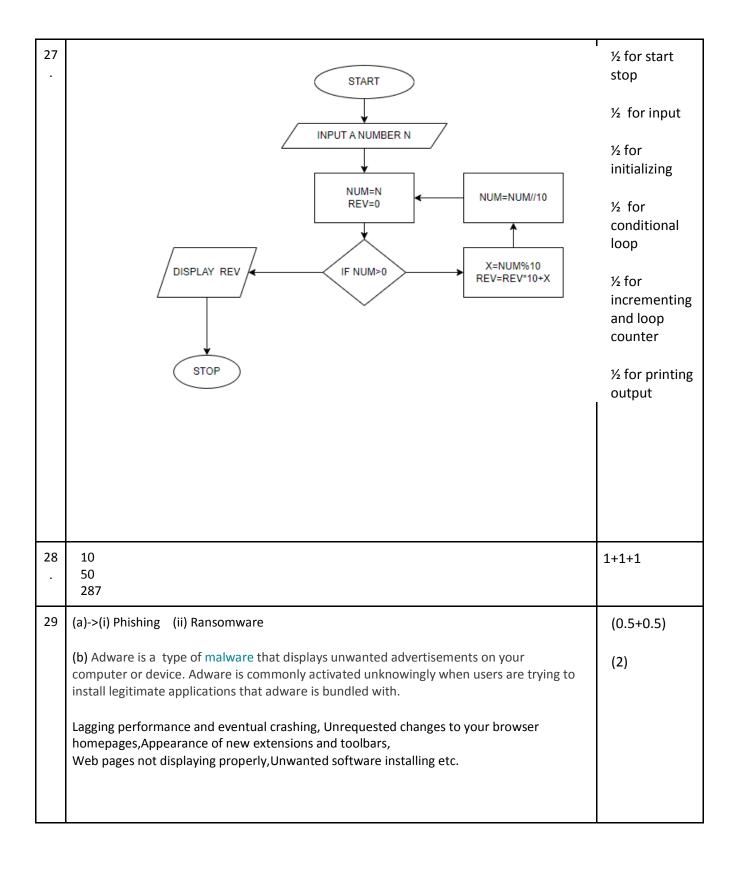
Subject: Computer Science(083)

	Section A	Marks
1.	a. Sum#	1
2.	c. Ubuntu	1
3.	d. statement 4	1
4.	c. UTF-128	1
5.	b. Exclusive OR Gate	1
6.	d. zottabyte	1
7.	c. ('Learn today ', 'Lead', ' tomorrow')	1
8.	c. Phishing	1
9.	d. statistics	1
10.	b. 34.0	1
11.	d. 5	1
12.	b. Spyware	1
13.	b. Change her social media privacy settings to restrict who can see her posts	1
14.	a. Found	1
15.	a. A license that allows users to view and modify the source code of the software	1
16.	b. Including a clear subject line and polite greeting	1
17.	a. Both A and R are True and R is the correct explanation for A.	1
18.	c. A is True but R is False.	1

	Section B	
19	a. Embedded Operating System b. Multi-user Operating System OR Rahul's laptop is likely using the Unicode encoding scheme, specifically UTF-8, UTF-16, or UTF-32. Unicode is designed to support a wide range of characters from many different languages, including Chinese, Arabic, and Russian. Sakshi's Laptop is using older and limited encoding scheme. Unicode is better than many encoding schemes because it is supported by many softwares and internet protocols. (any valid reason should be marked appropriately)	1+1 1 mark for identifying correct encoding scheme 1 mark for correct reason
20	<pre>d = {'a':1,'b':2,'c':3} n = {} values = d.values() keys = list(d.keys()) k = 0 for i in values: n[i] = keys[k] k+=1 print (n)</pre>	½*4=2
21	Syntax errors occur when code violates syntax rule of the programming language preventing it from running. Detection occurs during compilation or interpretation. Logical errors arise when code is syntactically correct but produces incorrect results due to flaws in algorithm or logic. OR {'Ertiga': 8, 'XUV': 6, 'Innova': 8} {'Ertiga': 8, 'XUV': 6, 'Innova': 8, 'Swift': 5}	1+1
	 a. Yes, by sharing her geolocated pictures, Shikha is leaving a digital footprint. DShe acn manage her digital footprints by using privacy settings on social media, avoiding sharing personal information online, using a VPN, deleting search history and cookies, and setting up two-factor authentication. b. Netiquettes are the code of good behavior on the internet. They are guidelines for courteous communication and interaction online. Netiquettes Shikha Should Follow on Social Media (Any one): a. Respect Privacy b. Think before posting c. Respect others Opinions d. Be mindful of language and tone (any relevant point must be marked) OR In India, the primary legal body that deals with appeals regarding cyber-related issues is the Cyber Appellate Tribunal (CAT). The CAT operates under the jurisdiction of the Information Technology Act, 2000, which provides a legal framework for addressing cyber crimes, frauds, cyber attacks, and cyber bullying 	1

23		A - B -	7				2
			220) ₁₀ 72.6) ₈				
24.	a. b. Maxim	Ma Or um	utcome: ingo@Ch ange@M value of t /alue of t	erry@ lango@Cherry@ :4			2
25	a. 2X b. Tr			((A.B)'+(A.B)')'=	(A.B)		1+1=2
	Α	В	A.B	(A.B)'	(A.B)'+(A.B)'	((A.B)'+(A.B)')'	
	0	0	0	1	1	0	
	0	1	0	1	1	0	\neg
	1	0	0	1	1	0	
	1	1	1	0	0	1	\neg
				_			_

	Section C	
26	s= eval(input('Enter a list of integers')) sum35=0 ctr=0 for i in s: if i%3==0 or i%5==0: sum35+=i ctr +=1 print ('Average is : ', sum35/ctr)	3= ½ for creating list ½ +½ for initializing sum,counter 1 mark for loop and if statement ½ for printing result
	<pre>ipaddress=input("Enter an IP address") parts=ipaddress.split(".") flag=1 if len(parts)==4: pass else: flag=0</pre>	½ for input, ½ for split, ½ for checking exact 4 parts in ip address
	for part in parts: if part.isnumeric()==False: flag=0 break p=int(part) if p>=0 and p<=255: pass else: flag=0 break if flag==1: print("Valid IP Address") else: print("Invalid IP Address")	1 mark for checking the integer portion values of ip address, ½ for printing result



30	s=int(input("Enter your total annual income")) status=input("Are you from agricultural sector y/n") tax=0 if s<=300000:	1 mark for inputting values,
	tax=0 elif s<=600000: tax=0.05 *(s-300000) elif s<=10000000: tax=300000*0.5 + 0.1*(s-300000)	1 mark for if else
	elif s<=2000000: tax= 300000*0.5+ 0.1*400000+ 0.2*(s-1000000) else: tax=300000*0.5+ 0.1*400000+ 0.2*1000000+0.3*(s-2000000) if status=="y":	½ mark for deducting 5% tax,
	tax= 0.95*tax print("total tax=",tax)	½ marks for printing result

	Section D	
31	(a)(i) print(s[:6]) or print(s[:6:]) (ii) print(s[:5:2]) (iii)print(s[::-1]) (iv) print(s[5::-1]).lower()	½ x4=2
	(b) x='Today is my computer exam' for c in x[::2]: print(c)	½ for initializing string, 1½ for proper loop
32	(a) (i) import statistics =[1,2,3,1,2,4,5,1,5] print(statistics.mode(l)) (ii) import string	1+1
	st='Hello everyone' print(st.title()) (b) (i) t=(2*a) * math.sqrt(l)/g	1+1
	(ii) $v2=v1 + (3 * math.sin(x) * math.cos(x)**2)$	

	Section E	
33	a. &&OG&&M&*&* b. s1=input('Enter a string ')	2
	cnt=0 for i in s1: if i.lower()=='a':	2
	cnt +=1 print (cnt)	
	c ok	1

34	a. if 'India' not in country: country['India']='New Delhi'	1+1
	b. country.update(c2)	
	c. del country['Bhutan']	1
	d. print (country.keys())	1
	OR	1
	a. 20	1
	b. [20, 50, 50, 30, 15]	1
	c. None	1
	d. ('notebook', 23)	
	e. {'sample paper': [80], 'stamp': [80]}	1
		1

35	(a) c. Plagiarism.	1
	(b) Hacking	1
	(c) Identity Theft	1
	(d) - under representation of girls	2
	- Nowadays girls can find very few role models in the field of 'Computer	
	Science' whom they can imitate.	
	OR	
	(a)1. E- waste can lead to release of toxic and hazardous gasses that has a very	2
	ill effect on our lungs/ nervous system etc	
	-E-waste is non biodegradable and accumulates in the environment.	
	2 waste is non blodegradable and decamates in the environment.	
	2 i) Decycling ii) refurbish and rouse	1
	2. i) Recycling ii) refurbish and reuse	
	(1.)	
	(b)	1
	1. No, it is not suggested sharing the PIN number through SMS on the given	
	contact number because it might be a phishing attempt to steal sensitive	
	information.	
	2. Do not respond to the SMS, verify your account and keep track of your	1
	account.	