MARKING SCHEME

SECTION A

Ques		Marks
No		
1.	(c)Router	1
2.	(d)Trademark	1
3.	(c)ol	1
4.	(b)460	1
5.	(b) S[2]	1
6.	(b) FOSS	1
7.	(a) Star	1
8	(C)plt.xlabel()	1
9	(a)Prog	1
10	(c) 3	1
11	(a)update	1
12	(b) Mutable, immutable	1
13	(d)Aggregate Function	1
14	((c)Library	1
15	(c) total	1
16	(c)histogram	1
17	(b) Both A and R are true and R is not the correct explanation for A	1
18	(c) A is True but R is False	1

SECTION B

19	Hacking is the process of gaining unauthorized access into				
	a computing device, or group of computer systems. This is				
	done through cracking of passwords and codes which				
	gives access to the systems.				
20	(a)A router is a networking device that helps in forwarding	2			
	packets from source machine to the destination machine over				
	a network by using the shortest path.				

	(b)A gateway operates on all the seven layers of OSI model.A network gateway is a computer which has internet working capability of joining together two networks that use different base protocols.	
21	(i)2 (ii)3	2
22	import pandas as pd Subject=pd.Series([75,78,82,88],index=['English','Hindi', 'Maths', 'Science']) [1/2 mark for import statement,1/2 mark for usage of Series(),1/ mark for stating index as a list,1/2 mark for creating object subject]	2
23	(a)SELECT SUBSTR("Preoccupied", 4); (b)SELECT MID("Preoccupied", 6, 3);	2
24	(i)No copyright violation (ii)Share the expertise with others on the internet (iii)Avoid cyberbullying (iv)Respect other's privacy and diversity	2
25	<pre>import pandas as pd df ={"Technology":["Programming","Robotics","3DPrinting"], "Time(in months)":[4,4,3]} df= pd.DataFrame(df) print(df) (1/2 mark for each correction)</pre>	2

SECTION C

26	import pandas as pd data=[[101,'Gurman',98],[102,'Rajveer',95],[103,'Samar',96], [104,'Yuvraj',88]] df=pd.DataFrame(data,columns=['Rno','Name', 'Marks'])	3
	[1 mark for each correct python statement]	
27	import matplotlib.pyplot as plt pr=[74.25, 76.06, 69.5, 72.55, 81.5] plt.bar(range(len(pr)),pr,width=0.4) plt.title("Prices of Abc Company") plt.ylabel("Prices") plt.show()	3

1	(1 mark for the import statement,1 mark for appropriate					
	usage of bar() and title(),1 mark for show())					
28	(i)11	3				
	(ii)cbse					
	(iii)exams					
29	i.Nadar has become a victim of cyber bullying and cyber	3				
	stalking.					
	ii. She must immediately bring it into the notice of her parents					
	and school authorities. And she must report this cyber crime to					
	local police with the help of her parents. iii. Yes. The Information Technology Act, 2000 (also known as					
	ITA-2000, or the IT Act) is the primary law in India dealing with					
	cybercrime and electronic commerce.					
30	(i)6	3				
	(ii)34000					
	(iii)Foun					
	Nigh					
	OR					
	(i)MATE					
	(ii)ION					
	1 ` '					
	(iii)8					

SECTION D

31	i.SELECT LOWER(CNAME) FROM CLOTH;					
	ii. SELECT MIN(PRICE) FROM CLOTH;					
	[1 mark for each correct query]					
	iii. SELÉCT COUNT(*) FROM CLOTH GROUP BY SIZE HAVING					
	SIZE='M';					
	OR					
	SELECT YEAR(DOP),COUNT(*) FROM CLOTH GROUPBY					
	YEAR(DOP);					
	[2 mark for correct query]					
32	a) (i) mdf.iloc[1:3]					
	(ii) mdf['Maths']=mdf['Maths']+4					
	(b) mdf.loc[:,['roll no','name']][mdf['Maths']<10]					
	OR OR					
	<pre>print(mdf.English + mdf.Hindi + mdf.Maths) [MARK 1+1+2]</pre>					

SECTION E

