KENDRIYA VIDYALAYA SANGATHAN, JAIPUR REGION PREBOARD – 1 (2020-21) INFORMATICS PRACTICES (065) CLASS: XII MARKING SCHEME

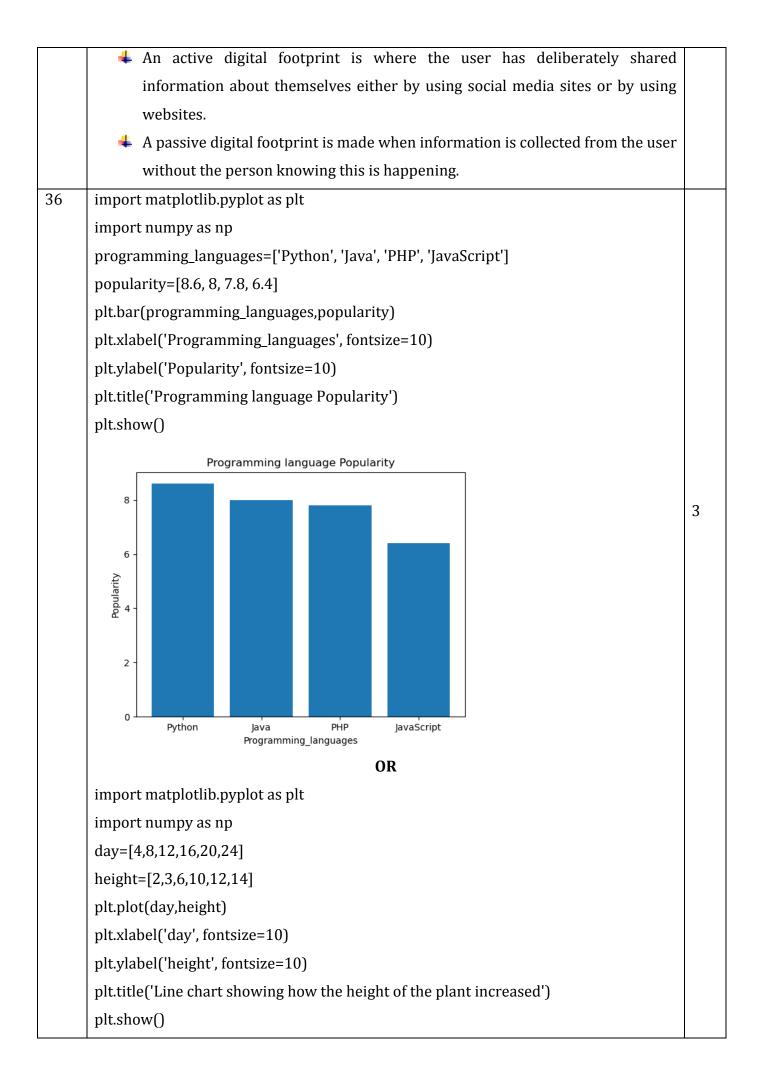
	MAKKING SCHEME	1
1	i) True	1
	ii) False	
	¹ / ₂ mark for each correct answer	
2	a. plt.show()	1
	1 mark for correct answer	
3	b. 19.62	1
	1 mark for correct answer	
4	c. 5	1
	1 mark for correct answer	
5	a. c 3	1
	d 4	
	e 5	
	dtype: int64	
	1 mark for correct answer	
6	c. xlabel(),ylabel()	1
	1 mark for correct answer	
7	c. Gateway	1
	1 mark for correct answer	
8	b. Row	1
	1 mark for correct answer	1
9	b. Star	
	1 mark for correct answer	1
10	b. Web Server	1
	1 mark for correct answer	1
11	Aggregate Function	
	1 mark for correct answer	1
12	b. Cyberbullying	
	1 mark for correct answer	1
13	b. loc()	
	1 mark for correct answer	1
14	Intellectual Property	
		1

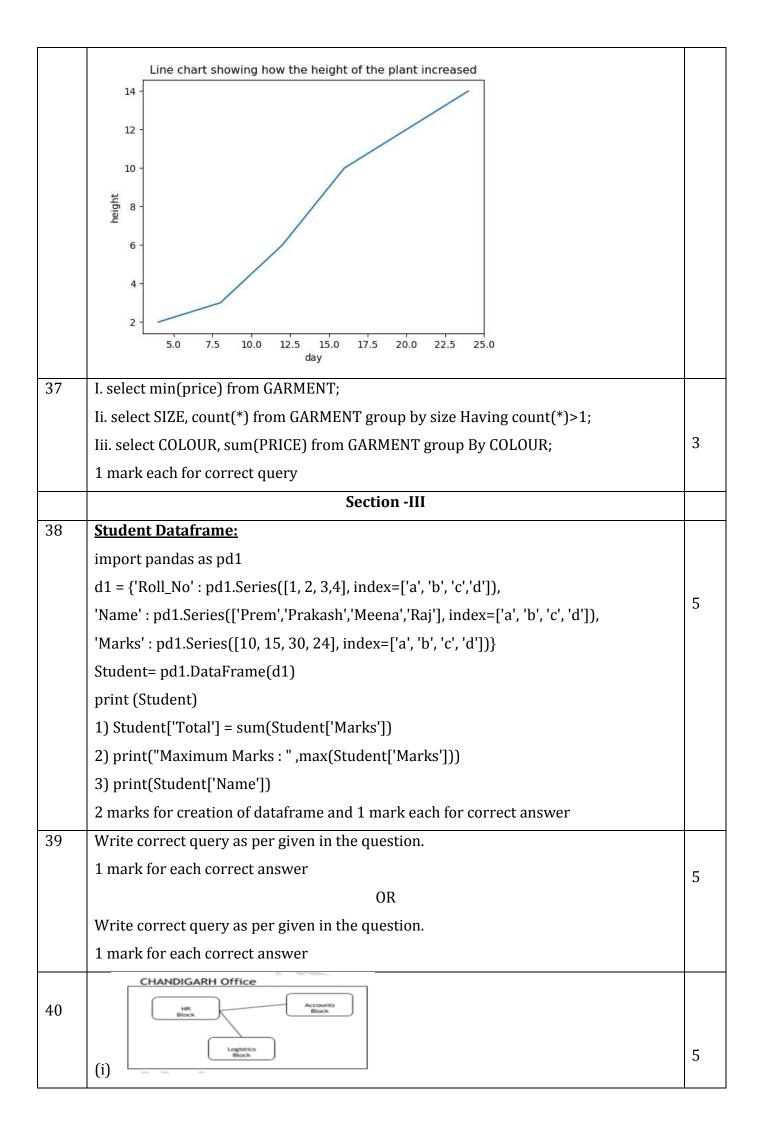
15 0		
	d. Apache Tomcat	4
	1 mark for correct answer	1
16	c. Cyberstalking	1
	1 mark for correct answer	1
17	1. Donating Your Outdated Technology	
	2. Give Your Electronic Waste to a Certified E-Waste Recycler	1
	1/2 mark for each correct way	
18	Alter	1
	1 mark for correct answer	
19 ·	+	
	instr('Toolbarbar','bar')	1
-	++	
	5	
	1 mark for correct answer	
20	Repeater	1
	1 mark for correct answer	1
21	Phishing	
	1 mark for correct answer	1
	Section -II	
22	(i) print(df.max())	
	(ii) a. df1=df[df['EmpNo']==4]	4
	print(df1)	
1	(iii) a. both (i) and (ii)	
1	(iv) a. d. print(df. Columns)	
1	(v) b. df ['Grade']=['A','B','A','A','B']	
	1 mark each for correct answer	
23(i) a	a. select FLCODE, START, DESTINATION, NO_FLIGHTS from FLIGHT order by	
]	NO_FLIGHTS desc;	
	1 mark for correct Query	
(ii) l	b.	-
	FLCODE No_FLIGHTS	
	IC103 7	
	IC107 4	4
	1 mark for correct Output	
(iii) (c. select distinct(DESTINATION) from FLIGHT;	-

	1 mark	x for correct Query		
(iv)			TION, NO_FLIGHTS from FLIGHT group by	-
		NATION;		
		t for correct Query		
(v)	a. selec	ct max(NO_STOPS) from FLIGHT	Г;	-
	1 mark	s for correct Query		
			Part - B	
	Section – I			
24	import pandas as pd1			
	data1 =	= [['Freya',10], ['Mohak',12], ['D	wivedi',13]]	2
	Studen	nt = pd1.DataFrame(data1, colui	mns= ['Name', 'Age'])	
	print (Student)		
	½ mar	k for import statement		
	½ mar	k for usage of DataFrame ()		
	½ mar	k for stating index as a list		
	½ mar	k for creating object Student		
25	WHER	E Clause is used to filter the red	cords from the table or used while joining more	
	than of	ne table. Only those records wi	ll be extracted who are satisfying the specified	
	conditi	ion in WHERE clause. It can be u	sed with SELECT, UPDATE, DELETE statements.	
	Ex-SE	LECT S_Name, Age FROM Stude	nt WHERE Age >=18;	
	HAVIN	IG Clause is used to filter the	records from the groups based on the given	
	conditi	ion in the HAVING Clause. Those	e groups who will satisfy the given condition will	
	appear	in the final result. HAVING Clau	use can only be used with SELECT statement.	2
	Ex-SE	LECT Age, COUNT(Roll_No) AS I	No_of_Students FROM Student	
	GROUF	P BY Age HAVING COUNT(Roll_N	No) > 1;	
			OR	
	SR.			
	NO	ALTER COMMAND	UPDATE COMMAND	
		ALTER command is Data	UPDATE Command is a Data	
	1	Definition Language (DDL).	Manipulation Language (DML).	
		Alter command will perform		
		the action on structure level	Update command will perform on the	
	2	and not on the data level.	data level.	
		ALTER Command is used to		
		add, delete, modify the		
		attributes of the relations	UPDATE Command is used to update	
	3	(tables) in the database.	existing records in a database.	

	Example : Table structure, Table Name, SP, functionsExample : Change data in the table in rows or in column etc.	
	½ mark each for correct difference	
26	<pre>i. SUBSTR('Aakila', -3) ila ii. LEFT('Toolbar', 4) Tool 1 mark each for correct output</pre>	2
27	i. import pandas as pd s = pd. Series () print(s)	2
	 ii. c 3 d 4 1 mark each for correct answer 	
28	This is because the column DESTINATION contains two NULL values and the aggregate functions do not take into account NULL values. Thus Command1 returns the total number of records in the table whereas Command2 returns the total number of non- NULL values in the column DESTINATION. 2 mark for correct Justification	2
29	i. Modulus Raised 3 9 ii. Today's date + 10 days OR i.	2

	length('CORONA COVID-19') ++	
	15	
	ii.	
	lcase('COMputer Science')	
	computer science	
	1 mark each for correct answer	
30		
30	i. $c = [7,8,9]$	
	<pre>df['C'] = c ii. print(df.rename(columns={'B': 'D'}))</pre>	2
	ii. print(df.rename(columns={'B': 'D'})) 1 mark each for correct query	
31	a. Advanced Research Projects Agency NETwork	
51	b. Transmission Control Protocol	
	c. Network interface card	2
	d. Registered Jack – 45	
	1 mark each for correct abbreviation	
32	Lung cancer, DNA damage, Asthmatic bronchitis, Chronic damage to the brain, Damage	
52	to heart, liver and spleen (Write any four)	
	¹ / ₂ marks for each health hazard	2
33	The act of presenting the words, ideas, images, sounds, or the creative expression of	
	others as it is your creation or your own is known as Plagiarism. Any one example of	2
	plagiarism.	
	1 mark each for correct definition and Example.	
	Section -II	
34	i. str *2- Informatics practicesInformatics practices	
	ii. str +'yes'- Informatics practicesyes	3
35	A Denial-of-Service (DoS) attack is an attack meant to shut down a machine or	
	network, making it inaccessible to its intended users. DoS attacks accomplish this by	
	flooding the target with traffic, or sending it information that triggers a crash. Popular	3
	flood attacks include:	
	Buffer overflow attacks	
	↓ ICMP flood	
	🔸 SYN flood	
	OR	
	A digital footprint is data that is left behind when users have been online. There are	
	two types of digital footprints which are active and passive.	





(ii) HR Block - Because it has maximum number of computers.

(iii) Best wired medium: Optical Fiber OR CAT5 OR CAT6 OR CAT7 OR CAT8 OR

Ethernet Cable

(iv) Firewall - Placed with the server at the HR Block

(v) (b) WAN and (d) LAN OR (b) WAN OR (d) LAN