DAV PUBLIC SCHOOLS , CG ZONE SAMPLE QUESTION PAPER CLASS XII INFORMATICS PRACTICES (065)

TIME: 03 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 02 questions carrying 04 marks each.
- 7. Section E has 03 questions carrying 05 marks each.
- 8. All programming questions are to be answered using Python Language only.

	SECTION A	I
1.	The is a networking device that regenerates or recreates a week signal into its original	1
	strength and form.	-
	a. Gateway	I
	b. Hub	I
	c. Repeater	I
	d. Bridge	I
2.	are the attempts by individuals to obtain confidential information from you through an	1
	original looking site and URL.	I
	a. Spoofing	I
	b. Phishing	1
	c. Plagiarism	1
	d. Trojan	L
3.	Functional expression of the idea/invention will be protected by	1
	a. Copyright	1
	b. Intellectual Property Right	1
	c. Patent	1
	d. Trademark	
4.	Consider following column of Department table	1
	Salary	1
	10000	1
	20000	1
	Null	1
	25000	1
	15000	1
	30000	1
	What would be the output of the following query?	1
	Select Avg(Salary) from Department;	l
	a. 25000 b. 20000 c. Null d. 16666	

M.M.: 70

~	Which of the following SQL function belongs to math function?	4
5.	a. Sum()	1
	b. Round()	
	c. Count()	
	d. Avg()	
6.	operating system is an example of FOSS. a. Unix	1
	b. Mac	
	c. Windows	
	d. Ubuntu	
7.	To export data of a .csv file in a DataFrame function is used.	1
	a. to_csv	
	b. read_csv	
	c. csvread	
	d. tocsv	
0.	Madhav is a student. He is learning MYSQL.He wants to display the IName and Price of all the	-
	items in the ascending order of their Price. He is trying to execute below given query but unable to	
	do so:	
	SELECT INAME FROM ITEM GROUP BY PRICE(ASC);	
	Which of the following query is correct to perform the given task:	
	a. SELECT * FROM ITEM GROUP BY PRICE;	
	b. SELECT INAME, PRICE FROM ITEM HAVING PRICE ORDER BY ASC;	
	c. SELECT INAME, PRICE FROM ITEM ORDER BY PRICE;	
	d. SELECT INAME, PRICE FROM ITEM ORDER BY PRICE(ASC);	
9.	Predict the output of the following query:	1
	SELECT UPPER(LEFT("Informatics Practices", 5));	
	a. TICES	
	b. INFOR	
	c. PRACT	
	d. MATIC	
10.	Identify the correct options to select first four rows and second to fourth columns from a DataFrame	1
101	'Data'.	-
	a. display(Data.iloc[1:5,2:5])	
	b. $print(Data.iloc[0:4,1:4])$	
	c. print(Data.iloc[1:4,2:4])	
	d. display(Data.iloc[1:4,2:4])	
11.	Which SQL statement is used to manipulate data in a database?	1
11.	a. UPDATE	1
	b. SAVE	
	c. MODIFY	
	d. ALTER	
12.	To get the transpose of a DataFrame DF1, you can write	1
	a. DF1.Transpose	
	b. DF1.T	
	c. DF1.Swap	
	d. DF1.Change	

13.	Himanshi sets up her own company to sell her own range of clothes on instagram. What type of 1									
	intellectual property can she use to show that the clothes are made by her company?									
	a. Patent									
	b. Design									
	c. Copyright									
	d. Trademark									
14.	The string function that returns the index of the first occurrence of substring is	1								
1	a. INSERT() b. INSTR() c. INSTRING() d. INFSTR()	1								
15.	What is a router?	1								
	a. A device that connects to a network and direct traffic between devices.	_								
	b. A device that amplifies and extends a signal over long distances.									
	c. A device that expands the number of ports on a network.									
	d. A device that connects two different types of networks.									
16.	What is Intellectual Property Right(IPR)?	1								
10.	a. The right to protect one's personal information	1								
	b. The right to protect one's physical property									
	c. The right to protect one's creative work									
	d. The right to protect one's reputation									
17.	Assertion (A): A switch is a network device used to connect multiple devices on a network.	1								
11.	Reason (R): Switches are used to control the flow of data within a network.	1								
	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									
	c. A is True But R is False d. A is False but R is True									
18.	Assertion(A): A DataFrame in Pandas can be created from a list of dictionaries.	1								
10.	Reason(R): A DataFrame in Pandas can only be created from a dictionary of Series.	1								
	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									
	SECTION B									
19.	Explain what is URL and its types with example.	2								
	OR	-								
	What is the purpose of a server in a network?									
20.	Consider the following python code, underline the errors and rewrite the correct code:	2								
	import Pandas as pd	-								
	L1={"Name:["Amit", "Ankit", "Sunita"], "Marks": [45, 56, 67]}									
	DF= pd.Dataframe(L1, columns=[" Marks", "Name"], index=[1,2,3])									
	print(D)									
21.	Assuming the given text "Informatics Practices Class-XII", write the SQL statements for the	2								
	following:	2								
	i) To check whether "ces" is available in the above string or not.									
	ii) To print extract "XII" and print it in lower case.									
22.	Predict the output of the given Python code:	2								
	import pandas as pd	-								
	S1=pd.Series([2,7,10])									
	print(S1*2)									
	print(S1>2)									

24. Complete the code to get the required output: 28 import	23. W	/hat i	s e-waste? V	Write an	y 2 adverse	effects of e-was	ste.			2		
	24. C											
print(\$1[""]) 25. Write the difference between WHERE and HAVING clause. SECTION C 26 Given the following relation STUDENT No Name Age Dept Dateofadm Fee GENDER 1 Pankaj 24 Computer 10/01/97 120 M 2 Shalini 21 History 24/03/98 200 F 3 Sanjay 22 Hindi 12/12/96 300 M 4 Sudha 25 History 21/06/98 300 M 6 Shakcel 30 History 27/06/98 300 M 7 Surya 34 Computer 25/02/97 210 M 8 Shikha 23 Hindi 31/07/97 200 F 8 Shikha 23 Hindi 31/07/97 200 F Write SQL commands for the following: a. To show all the information about the students of the History department. b. To count												
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AttributesDatatypesConstraintsWSIDIntegerPrimary Key			-		-			•				
WSID Integer Primary Key			Attributes o	f Table	'Workshop'	are as follows.	1					
			Attributes	Data	atypes	Constraints						
Title Varchar(50) Not Null			WSID	Inte	ger	Primary Key						
			Title	Vare	char(50)	Not Null						
DayeWS Date			DayeWS	Date	2]					
Speakers Integer			Speakers	Integ	ger							

29.	Mohita has be	en recently tran	sferred in	new school	in new ci	ity but after some time someone started	d 3				
	posting demea	aning, negative tly from unknov	comments	s on her soci	ial media	account, she has been receiving many rk online she find herself that someon	y				
	a. Mohita is the victim of which type of cyber crime.b. What is identity theft?										
	c. What is the	•	•	e in which u	sers are ti	ricked to give login ids and passwords					
		r crime? Differe			0	cking					
30.	Consider the f	ollowing DataF		rks" given be	elow:		3				
		Arnab	Ramit	Sam	Riya	Mallika					
	Math	s 90	92	89	81	94					
	Scien	ce 91	81	91	71	95					
	Engli	sh 85	86	83	80	90					
	IP	97	96	88	67	99					
	 Write suitable python statement for the following: a. Insert a column "Amit" with values (90,92,95,89). b. Delete the column "Riya". c. Add marks of Subject " Hindi" having marks as (83, 78,98,86,83). 										
				SECTIC							
	A school is ma different clubs		lent's reco	rd in a datab	ase. The t	table "Club" stores data of students in	4				
	Admno	Name	Grade	Club	Marks	Gender					
	20150001	Sargam Singh	12	STEM	86	MALE					
	20110212	Alok Kumar	10	SPACE	75	MALE					
	20090234	Mohit Gaur	11	SPACE	84	MALE					
	20130216	Ramil Malik	10	READER	91	MALE					
	20190227	Tanvi Batra	11	STEM	70	FEMALE					
	20120200	Nomita Ranjai	n 12	STEM	64	FEMALE					
	 Write SQL queries for the following: a. Display the average Marks secured by each Gender. b. Display the minimum Marks secured by the students of Grade 10. c. Display the total number of students in each Club where the number of students is more than 10. 										
	d. Displa	y the maximum	and minin	num marks s	secured by	y each gender.					

		Jan Feb	Mar	Apr	May
	Zone1	9000 4200	8300	7100	8600
	Zone2	9100 4300	8400	7500	8200
	Zone3	8900 4400	8200	7200	8300
	Zone4	9000 4700	8500	7300	8400
	 iii) What a) pri b) pri a program SQL querie To round To print th To print S 	e the Row Zone4 as will be output of the int(Sales.T) int(Sales.size) OR to export a csv file " es for the following: the number 4567.10 the month name from equare of 8. nodulus of 4 to 5.	code: Mydata.csv" stored 56 up to 2 decimal	placed.	to DataFrame.
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	npany "G	e length of the string Ol	R		ES CLASS-XII". 'Customer" to store data of hi
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A con	npany " Gener. CNO 101 102	e length of the string OI enX Software" has CNAME RICHA JAIN SURBHI SINHA	R created the follow ADDRESS DELHI CHENNAI	wing table ' AMOUN' 15000 20000	'Customer" to store data of hi
A con custon	npany " Gener. CNO 101 102 103 104 105	e length of the string OI enX Software" has CNAME RICHA JAIN SURBHI SINHA LISA THOMAS	Rcreated the followADDRESSDELHICHENNAIBANGLOREDELHICHENNAI	wing table ' AMOUN' 15000 20000 30000	'Customer" to store data of hi

ork. The University F ram below: enter to Center distanc Law Block to Busin Law Block to techno Law Block to HR co Business Block to H Business Block to H Technology Block t Law Block	has 3 academie e between vari ess Block ology Block enter 'echnology Bloc IR center o HR center	e blocks a ous block 40m 80m 105m k 30m 35m	locks at Prayag Nagar and is planning to se nd one Human Resource Center as shown i s/ center is as follows:		5
Law Block to Busin Law Block to techno Law Block to HR co Business Block to T Business Block to F Technology Block t Law Block	ess Block ology Block enter 'echnology Bloc IR center o HR center	40m 80m 105m k 30m 35m	s/ center is as follows:		
Law Block to techno Law Block to HR co Business Block to T Business Block to F Technology Block t Law Block	ology Block enter Fechnology Bloc IR center o HR center	80m 105m k 30m 35m			
Law Block to HR co Business Block to T Business Block to F Technology Block t ber of computers in ea Law Block	enter [°] echnology Bloc IR center o HR center	105m k 30m 35m			
Business Block to T Business Block to F Technology Block t ber of computers in ea Law Block	echnology Bloc IR center o HR center	k 30m 35m			
Business Block to H Technology Block t ber of computers in ea Law Block	IR center o HR center	35m			
Technology Block t ber of computers in ea Law Block	o HR center	-			
ber of computers in ea		15			
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		ks/center	s as follows:		
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HR center	115				
Business Block	25				
Which device will you fficiently connect all to The University is plant than 250 Km from univer ustify your answer. Which of the following	bu suggest to he computers winng to connect versity. Which ag will you su	be place within the t its admi type of no ggest to	ocks/centers for a wired connectivity. d/ installed in each of these blocks/centers se blocks/centers. ssion office in the closest big city, which is twork out of LAN, MAN, WAN will be forn establish the online face to face communic center: E-mail, Chat or VoIP . Define the su	more med ? cation	
opriate chart title and l e Python code to draw ble Title, Label for x-a	5, 89, 86, 93, 7 code to gener both axis labels the following axis and y-axis	9, 76, 83, ate a his s. Also gi OR bar graph . Use follo 3", "QT sa	96, 94, 88] ogram based on the given data along wi re a suitable python statement to save this ch representing the total sales each quarter. Ad owing data for plotting the graph: R4"] tes each quarter	art.	
0 e	priate chart title and l Python code to draw le Title, Label for x-a	priate chart title and both axis labels Python code to draw the following ole Title, Label for x-axis and y-axis sales=["QTR1", "QTR2", "QTF 600- 500- 400- 300- 200- 100-	priate chart title and both axis labels. Also giv OR Python code to draw the following bar graph ble Title, Label for x-axis and y-axis. Use follo sales=["QTR1", "QTR2", "QTR3", "QT sales=["QTR1", "QTR3", "QT sales=["QTR1", "QTR3", "QT sales=["QTR1", "QTR3", "QT sales=["QTR1", "QTR1", "QT sales=["QTR1", "QTR1", "QTR1", "QT sales=["QTR1", "QTR1", "QTR1", "QTR1", "QTR1", "QTR1", "QTR1", "QTR1", "	priate chart title and both axis labels. Also give a suitable python statement to save this ch OR Python code to draw the following bar graph representing the total sales each quarter. Ad ole Title, Label for x-axis and y-axis. Use following data for plotting the graph: sales=["QTR1", "QTR2", "QTR3", "QTR4"] Sales each quarter	Python code to draw the following bar graph representing the total sales each quarter. Add ble Title, Label for x-axis and y-axis. Use following data for plotting the graph: sales=["QTR1", "QTR2", "QTR3", "QTR4"] Sales each quarter