D.A.V. PUBLIC SCHOOLS, CG ZONE

SAMPLE PAPER 5 2023-2024

INFORMATICS PRACTICES (065)

Time: 3 Hours

Max. Marks: 70

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 Long Answer type 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.

			SECTIO	$\mathbf{DN} - \mathbf{A}$		
1.	Central compute	er which is pow	erful than another	r computer in	the network is called as	1
	a. Clint b	. Server	c. Hub	d. Switch	1	
2.	A software com	pany purchases	new computers e	very year an	d discards the old ones into the	1
	local dumping y	ard. Write the r	name of the most a	appropriate c	category of waste that the	
	organisation is c	reating every y	ear, out of the foll	lowing optio	ns.	
	a. Business wast	e		b. Comm	nercial waste	
	c. Solid waste			d. E-Was	ste	
3.	Most appropriat	e one for social	media account fr	om the follow	wing is	1
	a. intellectual pr	operty	b. internet p	property		
	c. digital propert	ty	d. personal	property		
4.	Predict the output	ut of the follow	ing query:			1
	SELECT ROU	ND(15.67258,I	LENGTH("nt"));	;		
	a.15.67	b. 10.0	c . 1:	5.672	d.15.6	
5.	Which of the fol	lowing function	n is a text function	n.		1
	a. MOD()	b. MID() c.P(OW()	d. SQRT()	
6.	Which of the fol	lowing is a disa	advantage of 'ope	n source' sof	ftware?	1
	a. High quality s	oftware with lo	ots of feature			
	b. You can edit	the source code	to customise it.			
	c. May not have	been tested as	much as proprieta	ary software,	so might have bug.	
	d. Cost-efficience	cy .				

7.	Select the correct statement to import CTUD CCV file to a dataforme df	1
/.	Select the correct statement to import STUD.CSV file to a dataframe df.	1
	a. df.to_csv("STUD.CSV")	
	b. df.from,_csv("STUD.CSV")	
	c. df.read_csv("STUD.CSV")	
-	d. df.by_csv("STUD.CSV")	
8.	Raju needs to display the average marks of students from each class which have more than 35	1
	students. Which of the following is a correct query to perform the given task?	
	a. SELECT CLASS, AVG(MARK) FROM STUD WHERE COUNT(*) > 35 GROUP BY	
	CLASS;	
	b. SELECT CLASS, AVG(MARK) FROM STUD HAVING COUNT(*) > 35 GROUP BY	
	CLASS;	
	c. SELECT CLASS, AVG(MARK) FROM STUD GROUP BY CLSSS WHERE COUNT(*)	
	> 35;	
	d. SELECT CLASS, AVG(MARK) FROM STUD GROUP BY CLSSS HAVING COUNT(*)	
	> 35;	
9.	Predict the output of the following query	1
	SELECT UCASE(RIGHT("I Love India",5))	
	a. LOVE b. INDIA c.Love d. India	
10.	The axis 1 identifies a dataframe's	1
	a. rows b. columns c.values d. datatype	
11.	With reference to SQL, identify the invalid data type.	1
	a. Date b. Integer c. Varchar d. Month	
12.	What will happen if you multiply a series object with 2.	1
	a. Gives an error message	
	b.All the data values become NaN.	
	c. All the data values get multiplied with 2	
	d. All the data values become 0 (Zero).	
13.	Which of the following is not a network connectivity device?	1
	a. Hub b. Graphic card c.Switch d.Router	
14.	Identify the invalid pair of SQL function.	1
	a. UCASE and UPPER	
	b. LCASE and LOWER	
	c. MID and SUBSTR	
	d. LEFT and RIGHT	
15.	The first page in a website is known as	1
10.	a. webserver b. web hosting c.initial page d. home page	1
16.	Which of the following is not a cyber crime?	1
10.	a. Hacking b. Phishing c.child pronography d.Downvote a social post	1
17.	Assertion : Script play an important role in dynamic webpage.	1
17.	Reason : Script are embedded codes within web pages, that execute at the client's browser and	1
	make the web page look different.	
	a. Both A and R are true and R is the correct explanation for Ab. 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	

18.	Assertion : A dataframe is a 2D datastruct	ure which is value mutable and size mutable.	1
	Reason : All changes occur in-place in a d	ataframe	
	a. Both A and R are true and R is the corre		
	b. Both A and R are true and R is not the c	1	
	c. A is True but R is False	1	
	d. A is false but R is True		
	SF	CCTION – B	
19.	Write any to difference between Static wel	prage and Dynamic web page	2
17.		OR	-
	Pohit type the LIPL in the address her of h	is web browser and he got an error 404. What may	
		-	
	be the reason and also suggest how to reso	ive this error.	
20	751		-
20.	corrections made.	al errors. Rewrite the correct code and underline the	2
	Import pandas as pd		
	d=Input('Enter your string')		
	S=pd.series(list(d))		
	Print(S)		
21.	Write suitable SQL queries for the following	;	2
	a. To display day name of current date.		
	b. Remove additional space in the beginning	ng and end of the string variable str.	
22.	Predict the output of the given Python code:		2
22.	import pandas as pd d={'Roll':[10,11,15,20],'Name':['Ayush','Vin df=pd.DataFrame(d)	ayak','Bhawna','Mokshika']}	2
	import pandas as pd d={'Roll':[10,11,15,20],'Name':['Ayush','Vin df=pd.DataFrame(d) print(df)	ayak','Bhawna','Mokshika']}	
22.	<pre>import pandas as pd d={'Roll':[10,11,15,20],'Name':['Ayush','Vin df=pd.DataFrame(d) print(df) Match the following</pre>		2
	import pandas as pd d={'Roll':[10,11,15,20],'Name':['Ayush','Vin df=pd.DataFrame(d) print(df)	ayak','Bhawna','Mokshika']} i. Faker by offering special reward or money price ask personal information such as	
	import pandas as pd d={'Roll':[10,11,15,20],'Name':['Ayush','Vin df=pd.DataFrame(d) print(df) Match the following a. Pligriarism	i. Faker by offering special reward or money price ask personal information such as bank account.	
	<pre>import pandas as pd d={'Roll':[10,11,15,20],'Name':['Ayush','Vin df=pd.DataFrame(d) print(df) Match the following</pre>	 i. Faker by offering special reward or money price ask personal information such as bank account. ii. Copy and paste information from internet 	
	<pre>import pandas as pd d={'Roll':[10,11,15,20],'Name':['Ayush','Vin df=pd.DataFrame(d) print(df) Match the following a. Pligriarism b. Hacking</pre>	 i. Faker by offering special reward or money price ask personal information such as bank account. ii. Copy and paste information from internet into your report and organise it. 	
	import pandas as pd d={'Roll':[10,11,15,20],'Name':['Ayush','Vin df=pd.DataFrame(d) print(df) Match the following a. Pligriarism	 i. Faker by offering special reward or money price ask personal information such as bank account. ii. Copy and paste information from internet into your report and organise it. iii. The trail that is created when a person use 	
	<pre>import pandas as pd d={'Roll':[10,11,15,20],'Name':['Ayush','Vin df=pd.DataFrame(d) print(df) Match the following a. Pligriarism b. Hacking c. Digital Footprint</pre>	 i. Faker by offering special reward or money price ask personal information such as bank account. ii. Copy and paste information from internet into your report and organise it. iii.The trail that is created when a person use the internet. 	
	<pre>import pandas as pd d={'Roll':[10,11,15,20],'Name':['Ayush','Vin df=pd.DataFrame(d) print(df) Match the following a. Pligriarism b. Hacking</pre>	 i. Faker by offering special reward or money price ask personal information such as bank account. ii. Copy and paste information from internet into your report and organise it. iii.The trail that is created when a person use the internet. iv. Bering into computer to read private email 	
	<pre>import pandas as pd d={'Roll':[10,11,15,20],'Name':['Ayush','Vin df=pd.DataFrame(d) print(df) Match the following a. Pligriarism b. Hacking c. Digital Footprint</pre>	 i. Faker by offering special reward or money price ask personal information such as bank account. ii. Copy and paste information from internet into your report and organise it. iii.The trail that is created when a person use the internet. 	
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23.	<pre>import pandas as pd d={'Roll':[10,11,15,20],'Name':['Ayush','Vin df=pd.DataFrame(d) print(df) Match the following a. Pligriarism b. Hacking c. Digital Footprint d. Credit card fraud Complete the given Python code to get the re pandas as dic={'Ramesh':{'Roll':7110,'Subject':'Scien df=pnd.DataFrame() print(df['Ramesh'][])</pre>	i. Faker by offering special reward or money price ask personal information such as bank account. ii. Copy and paste information from internet into your report and organise it. iii. The trail that is created when a person use the internet. iv. Bering into computer to read private email or other files. equired output as: Science hce'}, 'Rakesh': {'Roll':7112, 'Subject': 'Maths'}}	2
23.	<pre>import pandas as pd d={'Roll':[10,11,15,20],'Name':['Ayush','Vin df=pd.DataFrame(d) print(df) Match the following a. Pligriarism b. Hacking c. Digital Footprint d. Credit card fraud Complete the given Python code to get the re pandas as dic={'Ramesh':{'Roll':7110,'Subject':'Scien df=pnd.DataFrame() print(df['Ramesh'][])</pre>	i. Faker by offering special reward or money price ask personal information such as bank account. ii. Copy and paste information from internet into your report and organise it. iii. The trail that is created when a person use the internet. iv. Bering into computer to read private email or other files. equired output as: Science hce'},'Rakesh':{'Roll':7112,'Subject':'Maths'}}	2

		SI	ECTION – C				
6.	Table:EMP						
	++ empno ename	-+ doj	+ sa	י+- נ]	dept		
	++- 101 Jugal 102 Sharmila 103 Rakesh 104 Shyam 105 Shikha 106 Sandeep +	 2011-0 2010-0 2012-0 2013-0 2013-0 2017-0)8-19 70)7-10 30)7-15 30)7-15 30	0000 0000 0000 0000 0000 0000 0000	+ 8 8 6 5 7 5		
	Based on the SQL table EMP, a) Display department wise av b) Display the name of employ c)Display the month name of j	erage salary. vee who got h	ighest salary.	e followir	ng:		
	Predict the output of the follo	• •	based on the t	able EMP			
	 a) select ucase(ename),sal fro b) select concat(left(ename,2) 	•		omn who	ra dant-0.		
	c) select sum(sal) from emp gr		· –		ie uept–o,		
			· · ·				
7.	Create a DataFrame in Python Sales={'Name':['Ruchika','N	•	•			put:	
	•	eha','Manan'], 'Marks':[480			put:	
	Sales={'Name':['Ruchika','N Write MySQL statements for t i. To create a database named	eha','Manan' he following: Book.], 'Marks':[480),485,499]}	put:	
	Sales={'Name':['Ruchika','N Write MySQL statements for t i. To create a database named ii. To create a table named Au	eha','Manan' he following: Book. thor based on], 'Marks':[480),485,499]} tion:	- 	
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8.	Sales={'Name':['Ruchika','N Write MySQL statements for t i. To create a database named ii. To create a table named Au Column Name Author_ID Author_ID Author_name Answer the following question using the internet. i) While using intern social media he al quality Rahul is for ii) One day he received	eha', 'Manan' he following: Book. thor based on Data Typ Int Varchar(2 ons given for het he downlo ways uses po ollowing?], 'Marks':[480 h the following be 20) three different bads the files f blite language.	specifica]} tion: Constraint Primary Ke ns of a stuc ble source of using in	ts ey lent Rahul wh s and while u nternet which	nile
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8.	Sales={'Name':['Ruchika','N Write MySQL statements for t i. To create a database named ii. To create a table named Au Column Name Author_ID Author_ID Author_name Author_name Answer the following question using the internet. i) While using intern social media he al quality Rahul is for ii) One day he receive called? 3 6 iii) Someone has creat objectionable com	eha', 'Manan' he following: Book. thor based on Data Typ Int Varchar(2 ons given for het he downlow ways uses po blowing? ed unwanted ted his fake F tents. Which rds associated ame Classdf], 'Marks':[480 <u>a the following</u> <u>be</u> 20) three different bads the files f blite language. mails in his ir Facebook acco category of cy OR l with inapprop	specifica	<pre>ition: Constraint Primary Ke ns of a stuck ble source of using in at these un started poss e is this? excessive un</pre>	ts ey lent Rahul wh s and while u nternet which nwanted mail ting some	nile sing s are
7. 8. 9.	Sales={'Name':['Ruchika','N Write MySQL statements for t i. To create a database named ii. To create a table named Au Column Name Author_ID Author_name Author_name Author_name Answer the following question using the internet. i) While using intern social media he al quality Rahul is for ii) One day he receiv called? 3 6 iii) Someone has creat objectionable con Mention any three health haza	eha', 'Manan' he following: Book. thor based on Data Typ Int Varchar(2 ons given for het he downlo ways uses po bllowing? ed unwanted ted his fake H tents. Which rds associated ame Classdf Rollno], 'Marks':[480 n the following n the following	specifica	<pre>ition: Constraint Primary Ke ns of a stuck ble source of using in at these un started poss e is this? excessive un</pre>	ts ey lent Rahul wh s and while u nternet which nwanted mail ting some	nile sing s are
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	Based on the abo			e	of 'Brooti'	
			ode to display th			
			code to change th	ne row lab	el 0,1,2 and 3 to 'St1,St2,St3 and St4	
	respec	ctively.				
	iii. Write	a python co	de to add a colur	nn 'Total'	in Classdf, that contain the total mark	s
	obtain	ed by each s	tudent consideri	ng 500 as	maximum mark.	
		-		•		
			SECT	TION – D		
1	C. SHC (0.16		. (. '11	1	· · · · · · · · · · · · · · · · · · ·	
1.					ifferent types of pickles and sold it in	4
		e started to m	aintain the follow	ving databa	ase. Help them to solve the given query	•
	TABLE: Sale		Dete	Otre	Dete	
		P_id	Date 2022 08 12	Qty 15	Rate	
		P001	2023-08-12	15	150	
		P002	2023-08-15	16	200	
		P001	2023-09-16	20	150	
		P003	2023-09-17	25	300	
		P004	2023-10-10	10	400	
	• • • • • •	1. 1 .1	1	• • • • • • •		
	i. Write a query to		-			
	ii. Write a query to					
		to diamilary the	total quantity of	nickle P00	01 solod	
	iii. Write a query			-		
	iv. Write a query t			-		
				-		
				-		
2	iv. Write a query t	to count mon	th wise total nun	nber of trai	nsactions.	4
32.		to count mon	th wise total nun	nber of tran	wing	4
32.	iv. Write a query t	en DataFram	th wise total nun e Sdf and answe Name	r the follo Height	wing Weight	4
52.	iv. Write a query t	en DataFram	th wise total nun e Sdf and answe Name Aarav	r the follo Height 150	nsactions. wing Weight 45	4
2.	iv. Write a query t	en DataFram	th wise total nun e Sdf and answe Name Aarav Nidhi	r the follo Height 150 170	wing Weight 45 65	4
2.	iv. Write a query t	en DataFram	th wise total nun e Sdf and answe Name Aarav Nidhi Shourya	r the follo Height 150 170 160	nsactions. wing Weight 45 65 60	4
2.	iv. Write a query t	en DataFram	th wise total nun e Sdf and answe Name Aarav Nidhi	r the follo Height 150 170	wing Weight 45 65	4
2.	iv. Write a query to	en DataFram	th wise total nun e Sdf and answe Name Aarav Nidhi Shourya Tripti	r the follo Height 150 170 160 165	nsactions. wing Weight 45 65 60	4
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Stude	Ayush has created following table named Test							
			l					
Swati		42						
Shara	d 15	28						
Shekł		48						
Arpit		46						
Sachi		33						
i. Inser ['] ii. To c iii. To iv. To c v. To c in t. Rakesh four sp physica blocks board o	 Help him in writing SQL queries to the perform the following task: Insert a new record in the table having following values: ['Kamini',49,45] To change the value of Shekhar to 45 in half yearly examination column. To display the total marks obtain. i.e. addition of both half yearly and final emam. To add a new column Result of suitable datatype. To change the data of Result column to 'Pass' for those student who obtain more then 30 marks in final exam. Rakesh Training institute provide athletic training, planning to set up its centre in Raigarh with four specialised blocks for Admission, Management, Coach and Law in separate buildings. The physical distances between these blocks and the number of computers to be installed in these blocks are given below. You as a network expert have to answer the queries as raised by their board of directors. MANAGEMENT ADMISSION LAW COACH							
			Number of comput	ars installed at				
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Admi Mana Admi Admi Law t i. ii.	ssion to Management gement to Law gement to Coach ssion to Coach ssion to Law to Coach Out of the four b the best connectiv Suggest by drawi blocks for a wired Suggest the place (a) Mode (b) Hub/S The institute inter	60 60 40 50 110 40 locks on campus, su vity. Explain your re ng the best cable lay d connection. ment of the followin m Switch nds to link its Raigan	various blocks: Management block Law block Admission block Coach block ggest the location of the sponse.	150 50 70 20 server that will provide connectivity of the on of LAN, MAN, or				

