	bout Us Website: https://www.lea	rnpython4cbse.com/	Feedback 💽	8076665624						
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ΡΥΤΙ	HON ONLINE CLASSES COMPUTER SC.	INFORMATICS PRAC.	SAMPLE PAPERS	PYTHON MCQs						
			E)							
	INFORMATICS PRACTICES (065)									
		MPLE PAPER - 2								
0	Timen: 03:00 HrsCLASS - XIIMaximum Marks: 70									
Gene	ral instructions:									
•	This question paper contains five sections,	, Section A to E.								
•	All questions are compulsory.									
•	Section A has 18 questions carrying 01 ma	rk each.								
•	Section B has 07 Very Short Answer type of									
•	Section C has 05 Short Answer type questi	5 6	ach.							
•	Section D has 02 questions carrying 04 ma									
٠	Section E has 03 Long Answer type question									
•	All programming questions are to be answ	* *	uage only.							
		SECTION - A								
1	URLs are of two types:			1						
	(A) Absolute & Relative	(B) Static & Dy								
	(C) Absolute and Dynamic (D) None of the above									
2	Which of the following is not done by cybe			1						
	(A) Unauthorized account access	• •	k using Trojans as both							
3	(C) Email spoofing and spamming An organization purchase new computers e		nerability in any system							
3	dumping yard. Write the name of the most									
	creating every year, out of the following op		i waste that the organ							
	(A) Business waste	(B) Commercia	Iwaste							
	(C) E-waste	(D) Green was								
4	Which type of values will be returned by S0	• •		1						
	Select length("LENGTH");	· ·	Ū.							
	(A) Numeric value	(B) Text value								
	(C) Null value	(D) Float value								
5	If column "salary" contains the data set (45	5000, 5000, 55000, 4500	0, 55000), what will be	e the 1						
	output after the execution of the given que	5								
	SELECT AVG (DISTINCT salary) FROM emplo	5								
	(A) 38500	(B) 40000								
	(C) 41000	(D) 35000								
6	'V' in 'VISA' stands for:			1						
	(A) Virtual	(B) VISA								

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PYTH	Inspiring SuccessIONONLINE CLASSESCOMPUTER SC.	INFORMATICS PRAC. SAMPLE PAPERS PYTHON N	MCQs				
	(C) Vital	(D) None of these					
7	The correct SQL from below to find the ten	nperature in increasing order of all cities.	1				
	(A) SELECT city FROM weather order by ter	mperature ;					
	(B) SELECT city, temperature FROM weather	er;					
	(C) SELECT city, temperature FROM weather ORDER BY temperature ;						
	(D) SELECT city, temperature FROM weather	er ORDER BY city ;					
8	Which one of the following is not an aggree	gate function?	1				
	(A) Min (B) Sum						
	(C) With (D) Avg						
9	Where and Having clauses can be used interchangeably in SELECT queries?						
	(A) True (B) False						
	(C) Only in views (D) With order by						
10	Given a Pandas series called HEAD, the command which will display the first 3 rows is						
	(A) print(HEAD.head(3))	(B) print(HEAD.Heads(3))					
	(C) print(HEAD.heads(3))	(D) print(head.HEAD(3))					
11	In order to draw charts in Python, which of the following statement will be used:						
	(A) import pyplot.matplotlib as pl (B) import matplotlib.pyplot as plt						
	(C) Import matplotlib.pyplot as plt	(D) import pyplot from matplotlib as plt					
12	We can create dataframe from:						
	(A) Series (B) Numpy arrays						
	(C) List of Dictionaries	(D) All of the above					
13	Which amongst the following is an example of a browser?						
	(A) Mandriva	(B) GIMP					
	(C) Epic	(D) Azure					
14	In SQL, this function returns the time at which the function executes:						
	(A) SYSDATE	(B) NOW					
	(C) CURRENT	(D) TIME					
15	are the attempts by individuals to obtain confidential information from you through an						
	original looking site and URL.						
	(A) Pharming attack (B) Plagiarism						
	(C) Spamming	(D) Phishing scams					
16		er own range of clothes on Instagram. What type of	1				
	intellectual property can she use to show t						
	(A) Patents	(B) Copyright					
	(C) Trademark	(D) Design					

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I	017	and 18 are ASSEDTI		IG based questions. Mar	k the correct choice a	ac and a second s		
				ect explanation for A		15		
	• •			1				
(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							
17		rtion (A): Each webs		ddress called URL.			1	
			•	or and a correct example	e is			
		://mypage.htm/goo		·				
18	Asse	rtion (A): DataFrame	e has both a row a	nd column index.			1	
	Rea	oning (R): loc() is a l	abel based data se	lecting method to select	a specific row(s) or c	olumn(s)		
	whic	h we want to select						
				SECTION – B				
19	Expl	ain the terms Web P	age and Web Site.				2	
	OR							
		pare and contrast –	•	•			2	
20	Neelam, a database administrator needs to display Class wise total number of students of 'XI' and							
	'XII' house. She is encountering an error while executing the following query:							
		SELECT CLASS, COUNT (*) FROM STUDENT						
		ER BY CLASS HAVING						
		Help her in identifying the reason of the error and write the correct query by suggesting the						
21	-	ible correction (s).		SQL? Explain with the h	alp of cuitable over		2	
21 22				ising a dictionary that sto	1		2	
~~~		alayas in each city of		0 5		enunya	2	
	5	з з	•		wing 4 3 5 4 KVs res	snectively		
		Note: Assume some cities like AGRA, JHANSI, MATHURA, NOIDA having 4, 3, 5, 4 KVs respectively and pandas library has been imported as mypandas.						
23		tion any four net eti	•	jpundus.			2	
		tion any roat not of	9001001	OR			-	
	List	any four benefits of a	e-waste managem	ent.				
24		t will be the output	8				2	
		mport pandas as pd	•					
		mydata=pd.Series([		run', 'Radhika'])				
	>>>	orint(mydata < 'raje	sh')					
25	Care	fully observe the fol	lowing code:				2	
	>>>	import pandas as po	1					

		python4 Inspiring Su ONLINE CLASSE	iccess		Super ORMATICS PRAC.	rNova@learnpytho SAMPLE PAPERS	n4cbse PYTHON MC			
		UNLINE CLASSE			ORIVIATICS PRAC.	SAMPLE PAPERS	PTHONWC			
	>>> xiic = {'amit':34, 'kajal':27, 'ramesh':37}									
	>>> xiid = {'kajal':34, 'lalta':33, 'prakash':38}									
	>>> result = {'PT1':xiic, 'PT2':xiid}									
	>>> df = pd.DataFrame(result)									
	>>> print(df)									
	Answer the following:									
	i) List the index of the dataframe df									
	ii) Find the output of the following code : print(df.loc['kajal':'ramesh'])									
	print(	ui.iuc[ kajai . ta	mesn ])	SECTI	ON – C					
26	M∕rit⊝	outputs for SO	Laueries (i) to (		based on the give	en table GAMF	3			
-0	GID	NAME	DATEOFGA				5			
	1	JUDO	2022-10-17	_	RAMESH					
	2	BADMINTON	2022-10-17	14	KIRTI	_				
	3	JUDO	2022-8-18	19	KAMAL	_				
	4	TAEKWONDO		14	SADIQ	_				
	5	CHESS	2021-5-6	17	ALANKAR	_				
	i) Select name, under, winner from GAME where month(dateofgame)>7;									
	ii) Select Icase(mid(winner,2,3)) from GAME where NAME like "%O";									
	-				GAME where NAM					
27		•	•	•			list given 3			
	Write a Python code to create a DataFrame with appropriate column headings from the list given below:									
	[[1001,'IND-AUS','2022-10-17'], [1002,'IND-PAK','2022-10-23'], [1003,'IND-SA' , '2022-10-30],									
	[1004,'IND-NZ','2022-11-18']]									
28	Consid	der the given Da	ataFrame 'Item	s':			3			
		Name	Price	Quantity						
	0	CPU	7750	15						
	1	Watch	475	50						
	2	Key Board	225	25						
	3	Mouse	150	20						
		5	n statements fo		•					
	-				ecreased value of I					
	-			naving price	8000 and Quantity	/ as 10.				
	III) Kei	move the colun	in Quantity							

	earn	oython4				Supe		e Channel: earnpythor	14cbse	
Tŀ	ION O	Inspiring Solution		SC. II	NFORMAT	ICS PRAC.		E PAPERS	ΡΥΤΗΟΝ	I MCC
	exampl	e?								
	champ	0.			OR					
	What d	lo you mean k	by Intellectual Pro	perty Riq	jht? Give	some nam	es of comn	non type of I	P with	
	exampl	e.								
)	Based of	on table STOC	K given here, wri	te suitab	le SQL qu	eries for th	e following	g:		3
		STOCKID	NAME	COMPA	NY TYP	E DOF	PURCHASE	Quantity		
		1	Photoshop	Adobe	SW	5-0	ct-2022	1		
		2	Windows 10	Microso	oft SW	15-4	Apr-2021	5		
		3	Mother Board	ASUS	HW	8-Se	ep-2022	5		
		4	Office 2007	Microso	oft SW	8-Ju	I-2022	2		
		5	Hard Disk	Seagate	e HW	6-Fe	eb-2021	10		
		6	Azure	Microso	oft SW	17-J	ul-2022	6		
		7	CD ROM	Seagate	e HW	31-J	ul-2021	5		
		8	Reader	Adobe	SW	28-/	Aug-2022	2		
	Explain	-	ber of Software a e between WHEF		OR		ISE in detai	l with the he	elp of	
	Junable									
	Janabit	·		SEC	CTION – D	1				_
	Harsh,		mation collector	has desig	ned a dat	abase for I		ies. Help hin	n by	4
	Harsh,		mation collector ne following ques	has desig	ned a dat	abase for I		ies. Help hin	n by	4
	Harsh, a writing movie	answers of the	ne following ques	has desig tions bas Rating	ned a dat ed on the Product	abase for I e given tabl	le MOVIE:	DORelease		4
	Harsh, a writing movie 20	answers of the eID Name 1 Nadiya	ne following ques Ke Par	has desig tions bas Rating A+	ned a dat ed on the Product: Rajshree	abase for I e given tabl ion Col	le MOVIE: Ilection 400 1	DORelease 5-Aug-1989		4
	Harsh, a writing 20 20	answers of the eID Name Nadiya 2 Hum Aa	ne following ques Ke Par apke Hain Kaun	has desig tions bas Rating A+ A+	ned a dat ed on the Product Rajshree Dharma	abase for I e given tabl ion Col	le MOVIE: Ilection 400 1 1500 4	DORelease 5-Aug-1989 4-May-1992		4
	Harsh, a writing 20 20 20	answers of the ID Name Nadiya 2 Hum Aa 3 Veer Za	ne following ques Ke Par apke Hain Kaun ira	has desig tions bas Rating A+ A+ A	ned a dat ed on the Product Rajshree Dharma Yashraj	abase for I e given tabl	Ile MOVIE:           1           400           1           1500           1           100	DORelease 5-Aug-1989 4-May-1992 25-Oct-2004		4
	Harsh, a writing 20 20 20 20 20	answers of the ID Name Nadiya 2 Hum Aa 3 Veer Za 4 Chandn	ne following ques Ke Par apke Hain Kaun ara	has desig tions bas A+ A+ A A+ A+	ned a dat ed on the Product: Rajshree Dharma Yashraj Yashraj	abase for I e given tabl ion Col e 1 1 2	Ilection       400     1       1500     4       1100     2       2000     4	DORelease 5-Aug-1989 4-May-1992 25-Oct-2004 8-Nov-1989		4
	Harsh, a writing 20 20 20 20 20 20 20	answers of theeIDName1Nadiya2Hum Aa3Veer Za4Chandn5Om Sha	ne following ques Ke Par apke Hain Kaun tra i inti Om	has desig tions bas Rating A+ A+ A A+ A A+ A	ned a dat ed on the Product Rajshree Dharma Yashraj Yashraj Red Chi	abase for I e given tabl ion Col e 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 2 2	le MOVIE: llection 1 400 1 1500 4 1100 2 2000 1 2007 1	DORelease 5-Aug-1989 4-May-1992 25-Oct-2004		4
	Harsh, a writing 20 20 20 20 20 20 20 20 20 20 20 20 20	answers of theeIDName1Nadiya2Hum Aa3Veer Za4Chandn5Om Shae a query to dia	ne following ques Ke Par apke Hain Kaun ara i inti Om isplay movie nam	has desig tions bas A+ A+ A+ A A+ A e and pro	ned a dat ed on the Product Rajshree Dharma Yashraj Yashraj Red Chi	abase for I given tabl ion Col e 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	le MOVIE: llection 1 400 1 1500 2 1100 2 2000 2 2007 1 pper case	DORelease 5-Aug-1989 4-May-1992 25-Oct-2004 8-Nov-1989		4
	Harsh, a writing 20 20 20 20 20 20 20 20 20 20 20 20 20	answers of theeIDName1Nadiya2Hum Aa3Veer Za4Chandn5Om Shaa query to daya query to day	ne following ques Ke Par apke Hain Kaun tra i inti Om isplay movie nam lisplay all details o	has desig tions bas A+ A+ A A A e and pro	ned a dat ed on the Product: Rajshree Dharma Yashraj Yashraj Red Chi oduction	abase for I given tabl ion Col Col Col Col Col Col Col Col Col Col	le MOVIE: llection 400 1 1500 4 100 2 2000 1 2007 1 pper case 89	DORelease 5-Aug-1989 4-May-1992 25-Oct-2004 8-Nov-1989		4
1	Harsh, a writing 20 20 20 20 20 20 20 20 20 20 20 20 20	answers of theeIDName1Nadiya2Hum Aa3Veer Za4Chandn5Om Shaa query to daya query to day	ne following ques Ke Par apke Hain Kaun tra i inti Om isplay movie nam lisplay all details o count production	has desig tions bas Rating A+ A+ A A+ A e and pro of movies wise tota	ned a dat ed on the Product: Rajshree Dharma Yashraj Yashraj Red Chi oduction	abase for I given tabl ion Col Col Col Col Col Col Col Col Col Col	le MOVIE: llection 400 1 1500 4 100 2 2000 1 2007 1 pper case 89	DORelease 5-Aug-1989 4-May-1992 25-Oct-2004 8-Nov-1989		4

school MPS SFC JPS APS RLPS DPS dict the output shape 2:4]	analyst has des 'S01', 'S02', 'S03	igned the 3', 'SO4', non-v	e DataFram 'S05, 'S06' a vorking 10 12 4 6 15 6 n statement	working 70 76 21 39 75 54 t:	SAMPLE PAPER	Computer ver the	10N MC	
school MPS SFC JPS APS RLPS DPS lict the output shape 2:4] te Python sta	'S01', 'S02', 'S03 computers 80 88 25 45 90 60 t of the followin	non-v ng pythor	'S05, 'S06' a vorking 10 12 4 6 15 6 n statement	working 70 76 21 39 75 54 t:	own below. Answ	ver the	4	
APS RLPS DPS lict the output shape 2:4] te Python sta	45 90 60 t of the followin	ay the da	6 15 6 n statement	39 75 54 t:		05		
RLPS DPS lict the output shape 2:4] te Python sta	90 60 t of the followin	ay the da	15 6 n statemen ata of worki	75 54 t:		05		
DPS lict the output shape 2:4] te Python sta	60 t of the followin	ay the da	6 n statemen ata of worki	54 t:		05		
lict the outpu shape 2:4] te Python sta	t of the followin	ay the da	n statemen ata of worki	t:		05		
working column of the above given DataFrame. SECTION – E								
<ul> <li>Write suitable SQL query for the following: <ul> <li>i) Display 4 characters extracted from 3rd character onwards from string 'IMPOSSIBLE'.</li> <li>ii) Display the position of occurrence of string 'GO' in the string "LET's GO to GOA".</li> <li>iii) Round off the value 257.75 to nearest ten rupees.</li> <li>iv) Display the remainder of 18 divided by 5.</li> <li>v) Remove all the leading and trailing spaces from a column passwd of the table 'USER'.</li> </ul> </li> <li>OR <ul> <li>Explain the following SQL functions using suitable examples.</li> <li>i) MONTHNAME()</li> <li>ii) SUBSTRING()</li> </ul> </li> </ul>						5		
UND()								
	play the position und off the value play the remain nove all the lease n the followin NTHNAME() STRING() RIM() UND() HT() Shoes Pvt. Lime	play the position of occurrence und off the value 257.75 to ne play the remainder of 18 divi nove all the leading and trailin n the following SQL functions NTHNAME() 3STRING() RIM() UND() HT() Shoes Pvt. Limited is an intern	play the position of occurrence of stri- und off the value 257.75 to nearest te play the remainder of 18 divided by 5 nove all the leading and trailing space n the following SQL functions using su NTHNAME() 3STRING() RIM() UND() HT() Shoes Pvt. Limited is an international s	play the position of occurrence of string 'GO' in the und off the value 257.75 to nearest ten rupees. splay the remainder of 18 divided by 5. move all the leading and trailing spaces from a color <b>OR</b> n the following SQL functions using suitable exam NTHNAME() 3STRING() RIM() UND() HT() Shoes Pvt. Limited is an international shoe maker	play the position of occurrence of string 'GO' in the string "LET und off the value 257.75 to nearest ten rupees. splay the remainder of 18 divided by 5. nove all the leading and trailing spaces from a column passwd <b>OR</b> n the following SQL functions using suitable examples. NTHNAME() 3STRING() RIM() UND() HT() Shoes Pvt. Limited is an international shoe maker organization	play the position of occurrence of string 'GO' in the string "LET's GO to GOA". und off the value 257.75 to nearest ten rupees. splay the remainder of 18 divided by 5. nove all the leading and trailing spaces from a column passwd of the table 'USE <b>OR</b> n the following SQL functions using suitable examples. NTHNAME() BSTRING() RIM() UND() HT() Shoes Pvt. Limited is an international shoe maker organization. It is planning to	play the position of occurrence of string 'GO' in the string "LET's GO to GOA". und off the value 257.75 to nearest ten rupees. splay the remainder of 18 divided by 5. nove all the leading and trailing spaces from a column passwd of the table 'USER'. <b>OR</b> n the following SQL functions using suitable examples. NTHNAME() BSTRING() RIM() UND()	

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THON ONLINE CLASSES COMPU	ITER SC. INFORMATICS PRA	AC. SAMPLE PAPERS	PYTHON MCQs
You as a network expert have to s	suggest the best network rela	ted solutions for their pro	blems
raised in (i) to (v), keeping in mine	d the distances between the I	ouildings and other given	
parameters.			
DELHI head	AGR	A Office	
Office	PRODUCTION	WAREHOUSE	
		SHIPPING	—
	ADMIN	SHIPPING	
Shortest distances between vario			
ADMIN to WAREHOUSE	50 Mtr		
ADMIN to PRODUCTION	85 Mtr		
ADMIN to SHIPPING	45 Mtr		
WAREHOUSE to PRODUCTION	50 Mtr		
WAREHOUSE to SHIPPING	45 Mtr		
PRODUCTION to SHIPPING	40 Mtr		
DELHI head office to AGRA Office	e 240 Km		
Number of computers installed a	t various buildings are as follo	WS:	
ADMIN	120		
WAREHOUSE	60		
PRODUCTION	35		
SHIPPING	18		
Delhi Head Office	12		
i) Suggest the most appropriate lo	ocation of the server inside th	e AGRA Office (out of the	four
buildings) to get the best connect	ivity for maximum number o	f computers. Justify your a	inswer.
ii) Suggest and draw cable layout	-		
a wired connectivity.			
		uthe composite interest	mont all
iii) Which networking device will	you suggest to be procured by	y the company to intercon	nect all

