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PYTHON

ONLINE CLASSES

COMPUTER SC.

INFORMATICS PRAC.

SAMPLE PAPERS

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PYTHON MCQs

INFORMATICS PRACTICES (065) SAMPLE PAPER - 5

Timen: 03:00 Hrs CLASS - XII Maximum Marks: 70

General instructions:

- This question paper contains five sections, Section A to E.
- All questions are compulsory.
- Section A has 18 questions carrying 01 mark each.
- Section B has 07 Very Short Answer type questions carrying 02 marks each.
- Section C has 05 Short Answer type questions carrying 03 marks each.
- Section D has 02 questions carrying 04 marks each.
- Section E has 03 Long Answer type questions carrying 05 marks each
- All programming questions are to be answered using Python Language only.

		SECTION - A			
1	There are numerous websites, which provide search facility for searching the contents on				
	a) Internet b) Website				
	c)Web Page	d) LAN			
2	It is an act of copying another person's	data idea, words or work and pretended that they are our	1		
	own.				
	a) Copyright	b) Virus			
	c) Plagiarism	d) IPR			
3	Feasible method(s) to manage e-Waste.				
	a) Reducing				
	b) Reusing				
	c) Recycling				
	d) All of these				
4	Which type of values will not considered	by SQL while executing the following statement?	1		
	SELECT COUNT(column name) FROM INVENTORY;				
	a) Numeric value				
	b) Text value				
	c) Null value				
	d) Date value				
5	In column "Margin "contains the data set(2.00,2.00,NULL,4.00,NULL,3.00,3.00) what will be the				
	output of after the execution of the give	en query?			
	SELECT AVG(Margin) FROM SHOP;				
	a) 2.9 b) 2.8 c)2	d) All of these			
6	'P' in IPR stands for		1		
	a) Proprietary				

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	b) Platform				
	c) Patent				
	d) Property				
7	· · · · · · · · · · · · · · · · · · ·	at a satagony of N	MuCOL functions?		
′	Which of the following is no a) Text Functions	of a category of r	viysQL fullctions?		1
	b) Mathematical Functions				
	c)Statistical Functions				
	•				
0	d) Arithmetic Functions	allowing COL Con	mmand.		1
8	What is the output of the fo	ollowing SQL Cor	nmanu :		1
	SELECT ROUND(458.45,-1) a) 460				
	b) 450				
	c) 458				
	d) 500				
0	<u> </u>	ation is the corre	at a untay of LCACEA fun	ation?	
9	Which of the following fund	tion is the corre	ct syntax of LCASE() fun	CHOI!	1
	a) LCASE(row_name)b) LCE(column_name)				
	c) LCASE(str/column_name)	١			
	d) None of the above)			
10	To display Third Element of	a Carios abject S	S vou will write:		1
10	a) S[:3]	a series object s	s, you will write .		Ī
	b) S[2]				
	c) S[3]				
	d) S[:2]				
11	Which of the following state	amant is wrong i	in contaxt of DataFrama	23	1
	a) Two dimensional size is N	•	in context of Data rame	7 :	•
	•		vs and columns		
	b) Can perform Arithmetic operators on rows and columns. c) Homogeneous tabular data structure				
	d) Create Dataframe from r				
12	Which attribute is not used		?		1
	a) size	With Batarramo	•		•
	b) column				
	c) empty				
	d) type				
13	An online discussion group	that allow direct	live communication is l	known as	1
.5	a) e-mail	at anow an oot	o oominidanoution is i		•
	b) Hyperlink				
	c) Chat group				
	d) Web Crawler				
	,				

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	Γ.						
	ndex English	Marks 75					
	Hindi	78					
	Math	82					
	Science	88					
	Write a program in	python pandas	to create	this series using a di	ctionary.		
23	Name the methods	s for proper trea	tment of	e-waste.			2
				OR			
24	What is meant by o	<u> </u>		to manage it suggest	any two guidelines.		2
24	>>>import pandas	•	owing cod	ue.			
	>>>nums=pd.Series	•	ex=range	(0,10,2))			
	>>>print(nums[1:3]		J	•			
25	•		d answer	the following questio	n:		2
	Ld=[{'a',10,'b':20},	-	20}]				
	df=pd.DataFrame(Ld)					
	print(df)i) Write the missing	a import statom	ont in the	ahaya cada			
	ii) How many colun	•					
	ing the triaing section.			SECTION - C			
26	Write a python cod	le to create a Da		with appropriate col	umn headings		3
	from the list given				J.		
	[[201,'Gurmeet',95	i],[202,'Praveen	′,89],[203	3,′Suman′,97],[204.′Yo	ogesh',91]]		
27	Consider the given		es':				3
	Cname	Fee					
	0 XII 1 XI	3500 3000					
	2 X	2700					
	3 VII	1800					
	Write suitable Pyth	non statements	for the fo	llowing:			
	i. Add a column cal	led 'Section' wit	th the foll	owing data:			
	['A','B','C','D'].	Nama namad (I	V! houdes	price 1000			
	ii. Add a new Class iii. Remove the colu		x naving	price 1800.			
28			ments (i)	to (iii) which are has	ed on the given table P	FRSON	3
	TIMO O QL GOITHING	ido foi tilo stato		to (iii) willou die base	a sir the given tuble i		

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Help her by writing answers of the following questions based on the given table:

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5

Explain the following SQL functions using suitable examples.

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- i. LENGTH()
- ii. TRIM()

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- iii. NOW()
- iv. DAYNAME()
- v. POWER()
- Trine Tech Corporation (TTC) is a professional consultancy company. The company is planning to set up their new offices in India with its hub at Hyderabad.

As a network adviser, you have to understand their requirement and suggest them the best available solutions. Their queries are mentioned as (i) to (v) below.

Physical location of the blocks of TTC

Human Resources Block Conference Block

Finance Block

Blocks to block distance(in meter)					
Block(From)	Block(To)	Distance			
Human Resource	Conference	110			
Human Resource	Finance	40			
Conference	Finance	80			
Expected number of computers to be in each block					
Block	Computers				
Human Resource	25				
Finance	120				
Conference	90				

- (i) Which will be the most appropriate block, where TTC should plan to install their server?
- (ii) Draw a block to block cable layout to connect all the buildings in the most appropriate manner for efficient communication.

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Pass_Percentage=[82,83,85,90]