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Inspiring Success

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PYTHON

ONLINE CLASSES

COMPUTER SC.

INFORMATICS PRAC.

**SAMPLE PAPERS** 

**PYTHON MCQs** 

## INFORMATICS PRACTICES (065) SAMPLE PAPER - 4

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	The device used to connect two networks using different protocols is:	1
	i. Router	
	ii. Repeater	
	iii. Gateway	
	iv. Hub	
2	Ais some lines of malicious code that can copy itself and can have detrimental	1
	effect on the computers, by destroying data or corrupting the system.	
	i. Cybercrime	
	i. Computervirus	
	i. Program	
	iv. Software	
3	Any work / information that exist in digital form idea on internet or on an electronic device, is	1
	known asproperty.	
	i. License property	
	i. Digital property	
	i. Source code property	
	iv. Software property	
4	Which SQL statement is used to display all the data from product table in the decreasing order of	1
	price?	
	i. SELECT * FROM PRODUCT;	
	i. SELECT * FROM PRODUCT ORDER BY PRICE;	
	i. SELECT * FROM PRODUCT ORDER BY PRICE DESC;	
	iv. SELECT * FROM PRODUCT ORDER BY DESC;	
5	If column "City" contains the data set (DELHI, HYDERABAD, KOLKATA, CHENNAI, KOLKATA), what	1

Learnpython4cbse Inspiring Success  PYTHON  ONLINE CLASSES  COMPUTER SC.  INFORMATICS PRAC.  SAMPLE PAPERS  PYTHON  Will be the output after the execution of the given query?  SELECT COUNT(DISTINCT City) FROM Customer;  i. 4  ii. 5  iii. 3  iv. 2  6 'F' in FOSS stands for:  i. IForce  ii. Free  iii. Fibre  iv. First  7 Write the output of the following SQL command: select truncate(15.88,1);  i. 15.8  iii. 15.9  iv. 16  8 Which one of the following is not an aggregate function?  i. MAX()  ii. SUMUP()  iii. COUNT()  iv. MIN()  9 Which one of the following functions is used to find the smallest value from the given data in MySQL?  i. MINIMIMUM()  ii. MINIMIMUM()  iii. SIMALL()	MCQs  1				
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MySQL? i. MINIMUM() ii. MIN()					
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i. MINIMUM() ii. MIN()					
iii SMALLO					
III. JIVIALL()					
iv. TINY()					
<b>10</b> Given a Pandas series called Marks, the command which will display the last 2 rows is :	1				
i. print(Marks.tail(2))					
ii. print(Marks.Tail(2))					
iii. print(Marks.tails(3)					
iv. print(Marks.tail())					
11 Which of the following is not a valid char type?	1				
i. Lineplot					
ii. bargraph	,				
iii. histogram					
iv. statistical					
12 A DataFrame object is a collection of type of data.					
i. Homogenous	1				
ii. Heterogenous	1				
	1				

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	iii. Hybrid					
	iv. None of the above					
13	Website stores the browsing activity through:					
	i. web page					
	ii. Cookies					
	iii. passwords iv. server					
14	In SQL, which function returns the weekday name for a given date.	1				
14	i. DAY	•				
	ii. DAYNAME					
	iii. NAME					
	iv. DNAME					
15	5 Stealing someone's intellectual work and representing it as your own work 1					
	without citing the source of informationis:					
	i. Copyright					
	ii. Licensing					
	iii. GPL iv. Plagiarism					
16	· ·					
10	i. A list of all Indian Prime minister names					
	ii. A Portrait of your friend					
	iii. A song you wrote					
	iv. The name of your pet dog.					
	Q17and18 are ASSERTION AND REASONING based questions. Mark the correct choice as					
	i. Both A and R are true and R is the correct explanation for A					
	ii. Both A and R are true and R is not the correct explanation for A iii. A is True but R is False					
	iv. A is false but R is True					
17						
	transmission medium such as copper wires, fiber-optic cables, wireless connections etc.					
	Reasoning (R): - World wide web is a collection of interconnected documents.					
18	Assertion (A):-A series object can be created by calling the Series() method.	1				
	Reasoning (R): - A Series is a two-dimensional labelled data structure.					
	SECTION - B					
19	Distinguish between Static webpage and Dynamic webpage.	2				
	·					
	·					
18	transmission medium such as copper wires, fiber-optic cables, wireless connections etc.  Reasoning (R): - World wide web is a collection of interconnected documents.  Assertion (A):-A series object can be created by calling the Series() method.  Reasoning (R): - A Series is a two-dimensional labelled data structure.  SECTION - B	1				

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L	Learnpython4cbse Youtube Channel:						
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PYTE	ONLINE CLASSES	COMPUTER SC.	INFORM	ATICS PRAC.	SAMPLE PAPER	S PYTHON	I MCQs
20	Rohini writes the follow	ing commands wit	:h respect t	o a table Stude	ent having fields, S	SNo, Name,	2
	Age, Fee. Command1: Select count (*) from student;						
	Command2: Select count ( ) from student;						
	She gets the output as 5 for the first command but gets an output 4 for the second command.						
	Explain the reason for d	ifferent output wi	th justificat	ion.			
21	What is the purpose of (		•		•	•	2
22	Write a program in Pyth			named as "stu	_marks" which st	ores marks of	2
	4 subjects of a student in Assume that student is s	•		72 95 92 mar	ks in Maths Engli	ch ∐indi ID	
	respectively and PANDA	• •			ks iii iviatris, Erigii	SH, HIHIUI, II	
23	Give any two solutions t			•			2
		-	OR				
	List any two health haza			of technology.			
24	J J						2
	>>>import pandas as pd >>>A=pd.Series(data=[19,20,5,42])						
	>>>A=pu.series(uata=[19,20,5,42]) >>>print(A>15)						
25	Carefully observe the fo	llowing code:					2
	import pandas as pd						
	data = [('a': 10, 'b': 20},{'a': 6, 'b': 32, 'c': 22}]						
	df1 = pd.DataFrame(data) print(df1)						
	Answer the following:						
	i. List the index of the DataFrame df1						
	ii. List the column name	es of DataFrame di					
			SECTION	- C			
26	Write outputs for SQL q COURSE:	ueries					3
	CID	CNAME	FEES	STARTDAT	E TID		
	C201		12000	2018-07-02			
	C202		15000	2018-07-0			
	C203		10000	2018-10-03			
	C204		9000	2018-09-1			
	C205		20000	2018-08-03			
	C206	O LEVEL	18000	2018-07-25	5 105		
	i. SELECT LENGTH(CNAM	1E) FROM COURSE	WHERE FE	ES<10000;		-	
	ii. SELECT CNAME FROM	COURSE WHERE	MONTH (ST	TARTDATE)=8;			

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RESOURCE COMPOUND

MAIN COMPOUND

FINANCE COMPOUND

Center to center distances between various Compounds as per architectural

Drawings (in Meter) is as follows:

Main Compound to Resource Compound	50m
Main Compound to Training Compound	40m
Main Compound to Finance Compound	90m
Resource Compound to Training Compound	25m
Resource Compound to Finance Compound	45m
Training Compound to Finance Compound	200m

Expected Number of Computers in each Compound is as follows:

MainCompound	5
ResourceCompound	15
TrainingCompound	150
AccountsCompound	20

- 1. Suggest a cable layout of connections etween the compounds.
- 2. Suggest the most suitable topology of the connection between the wings.
- 3. Suggest the most suitable place (i.e. compund) to house the server for / this NGO. Also, provide a suitable reason for your suggestion.
- 4. Which networking device will you suggest to be procured by the company to interconnect all the computers of various Compounds of MUMBAI
- 5. The NGO is planning to connect its Internationa office situated in Delhi, which out of the

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Medal\_count=[50,60,40,55]