## KENDRIYA VIDYALAYA SANGTHAN JABALPUR REGION FIRST PREBOARD EXAMINATION2022-23 CLASSXII INFORMATICS PRACTICES(065)

## **TIME:3 HOURS**

**M.M.70** 

## **General Instructions:**

- 1. This question paper contains five sections, Section A to E.
- 2. All questions are compulsory.
- 3. Section A have 18 questions carrying 01 mark each.
- 4. Section B has 07 Very Short Answer type questions carrying02 marks each.
- 5. Section C has 05 Short Answer type questions carrying 03 marks each.
- 6. Section D has03 Long Answer type questions carrying 05marks each.
- 7. Section E has02 questions carrying 04 marks each. One internal choice is given in Q 35 against part c only.
- 8. All programming questions are to be answered using Python Language only.

	PARTA	
1.	There are numerous websites, which provide search facility for searching the	1
	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	1
	that they are our own.	
	a) Copyright b) Virus c) Plagiarism d) IPR	
3.	Feasible method(s) to manage e-Waste.	1
	a) Reducing b) Reusing c) Recycling d) All of these	
4.	Which type of values will not considered by SQL while executing the following	1
	statement?	
	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)	1
	what will be the output of after the execution of the given query?	
	SELECT AVG(Margin) FROM SHOP;	
	a) 2.9 b) 2.8 c)2.00 d) All of these	
6.	'P' in IPR stands for	1
	a) Proprietary	
	b) Platform	
	c) Patent	
	d) Property	
7.	Which of the following is not a category of MySQL functions?	1
	a) Text Functions	
	b) Mathematical Functions	
	c)Statistical Functions	

	d) Arithmetic Functions	
8.	What is the output of the following SQL Command :	1
	SELECT ROUND(458.45,-1)	
	a) 460	
	b) 450	
	c) 458	
	d) 500	
9.	Which of the following function is the correct syntax of LCASE() function?	1
	a) LCASE(row_name)	
	b) LCE(column_name)	
	c) LCASE(str/column_name)	
	d) None of the above	
10.	To display Third Element of a Series object S, you will write :	1
	a) S[:3]	
	b) S[2]	
	c) S[3]	
	d) S[:2]	
11.	Which of the following statement is wrong in context of DataFrame?	1
	a) Two dimensional size is Mutable	
	b) Can perform Arithmetic operators on rows and columns.	
	c) Homogeneous tabular data structure	
	d) Create Dataframe from numpy ndarray	
12.	Which attribute is not used with Dataframe?	1
	a) size	
	b) column	
	c) empty	
	d) type	
13.	An online discussion group that allow direct live communication is known as	1
	a) e-mail	
	b) Hyperlink	
	c) Chat group	
	d) Web Crawler	
14.	Which function extracts the date value from a date.	1
	a) CURRENT()	
	b) NOW()	
	c) SYSDATE()	
	d) DATE()	
15.	What is the name of the IT law that India is having in the Indian Legislature?	1
	a) India's Technology(IT) Act,2000	
	<ul><li>b) India's Digital Information Technology(DIT),Act,2000</li></ul>	
	<li>c) India's Information Technology(IT), Act ,2000</li>	
	d) The Technology Act,2008	
16.	Which of the following are automatically granted to creators and authors?	1
	a) Copyright	
	b) Patent	

	c) Trademark	
	d) Netiquette	
	Q17 and 18 are ASSERTION AND REASONING based questions. Mark the correct	ct
	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.	ASSERTION (A): E-waste can be toxic and harmful for nature	1
	<b>REASONING(R):</b> E-Waste that do not organically break down can, over time,	
	can seep directly into the environment	
18.	<b>ASSERTION(A):</b> drop() function removes data from a Dataframe temporarily.	1
	<b>REASONING(R):</b> Axis parameter is compulsory with drop() function.	
	PARTB	
19	What is a Website and Webpage?	2
19	OR	2
	What is a network? Why is it needed?	
20	Gopi Krishna is using a table Employee .it has the following Columns:	2
	Code,Name,Salary,Deptcode	
	SELECT Deptcode,MAX(Salary) FROM Employee;	
	He wants to display maximum salary department wise. But he did not get the	
	desired result .Rewrite the above query with necessary change to help him get	
	the desired result.	
21.	How are NULL values treated by aggregate functions?	2
22.	Consider the given Cories object Subjects	2
22.	Consider the given Series object Subject:	2
	Index Marks	
	English 75	
	Hindi 78	
	Math 82	
	Science 88	
	Write a program in python pandas to create this series using a dictionary.	
23.	Name the methods for proper treatment of e-waste.	2
	OR	
	What is meant by digital footprint and how to manage it suggest any two	
24.	guidelines. What will be the output of the following code:	2
24.		2
	>>>import pandas as pd	
	>>>import pandas as pd	
	>>>nums=pd.Series([9,8,7,6,5],index=range(0,10,2))	1

from the list given below: [[201,'Gurmeet',95],[202,'Praveen',89],[203,'Suman',97],[204.'Yogesh',91]]
df=pd.DataFrame(Ld)         print(df)         i)       Write the missing import statement in the above code.         ii)       How many columns will be there in the dataframe.         SECTION C         6.         Write a python code to create a DataFrame with appropriate column headings from the list given below:         [[201,'Gurmeet',95],[202,'Praveen',89],[203,'Suman',97],[204.'Yogesh',91]]         7.         Cname         Fee         0       XII         3       VI         3       VI         1       XI         3       VII         1800         Write suitable Python statements for the following:         i. Add a column called 'Section' with the following data:         ['A','B','C','D'].
print(df)         i)       Write the missing import statement in the above code.         ii)       How many columns will be there in the dataframe.         SECTION C         26.       Write a python code to create a DataFrame with appropriate column headings from the list given below:         [[201,'Gurmeet',95],[202,'Praveen',89],[203,'Suman',97],[204.'Yogesh',91]]         27.       Consider the given DataFrame 'Fees':         Cname       Fee         0       XII       3500         1       XI       3000         2       X       2700         3       VII       1800         Write suitable Python statements for the following:       i. Add a column called 'Section' with the following data:         ['A','B','C','D'].       Image: Section with the following data:
<ul> <li>i) Write the missing import statement in the above code.</li> <li>ii) How many columns will be there in the dataframe.</li> <li>SECTION C</li> <li>26. Write a python code to create a DataFrame with appropriate column headings from the list given below:         <ul> <li>[[201,'Gurmeet',95],[202,'Praveen',89],[203,'Suman',97],[204.'Yogesh',91]]</li> </ul> </li> <li>27. Consider the given DataFrame 'Fees':         <ul> <li>Cname</li> <li>Fee</li> <li>XII</li> <li>3500</li> <li>XII</li> <li>3000</li> <li>XI</li> <li>3000</li> <li>XX</li> <li>2700</li> <li>VII</li> <li>1800</li> </ul> </li> <li>Write suitable Python statements for the following:         <ul> <li>Add a column called 'Section' with the following data:             <li>['A','B','C','D'].</li> </li></ul></li></ul>
ii) How many columns will be there in the dataframe. SECTION C 26. Write a python code to create a DataFrame with appropriate column headings from the list given below: [[201,'Gurmeet',95],[202,'Praveen',89],[203,'Suman',97],[204.'Yogesh',91]] 27. Consider the given DataFrame 'Fees': Cname Fee 0 XII 3500 1 XI 3500 1 XI 3000 2 X 2700 3 VII 1800 Write suitable Python statements for the following: i. Add a column called 'Section' with the following data: ['A','B','C','D'].
SECTION C         Write a python code to create a DataFrame with appropriate column headings from the list given below:         [[201,'Gurmeet',95],[202,'Praveen',89],[203,'Suman',97],[204.'Yogesh',91]]         Consider the given DataFrame 'Fees':         Cname Fee         0       XII         3       VII         3       VII         Write suitable Python statements for the following:         i. Add a column called 'Section' with the following data:         ['A','B','C','D'].
from the list given below: [[201,'Gurmeet',95],[202,'Praveen',89],[203,'Suman',97],[204.'Yogesh',91]] 27. Consider the given DataFrame 'Fees': Cname Fee 0 XII 3500 1 XI 3000 2 X 2700 3 VII 1800 Write suitable Python statements for the following: i. Add a column called 'Section' with the following data: ['A','B','C','D'].
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[[201,'Gurmeet',95],[202,'Praveen',89],[203,'Suman',97],[204.'Yogesh',91]]         27.       Consider the given DataFrame 'Fees':         0       XII         1       XI         3000       XI         2       X         3       VII         1800         Write suitable Python statements for the following:         i. Add a column called 'Section' with the following data:         ['A','B','C','D'].
27.Consider the given DataFrame 'Fees':CnameFee0XII35001XI2X2X3VII1800Write suitable Python statements for the following:i. Add a column called 'Section' with the following data: $['A','B','C','D'].$
CnameFee0XII35001XI30002X27003VII1800
0XII35001XI30002X27003VII1800Write suitable Python statements for the following: i. Add a column called 'Section' with the following data: ['A','B','C','D'].
1XI30002X27003VII1800Write suitable Python statements for the following:i. Add a column called 'Section' with the following data:['A','B','C','D'].
2X27003VII1800Write suitable Python statements for the following:i. Add a column called 'Section' with the following data:['A','B','C','D'].
3VII1800Write suitable Python statements for the following:i. Add a column called 'Section' with the following data:['A','B','C','D'].
Write suitable Python statements for the following: i. Add a column called 'Section' with the following data: ['A','B','C','D'].
i. Add a column called 'Section' with the following data: ['A','B','C','D'].
<ul> <li>iii. Remove the column 'Section'.</li> <li>Write SQL commands for the statements (i) to (iii) which are based on the given</li> </ul>
table <b>PERSON</b> . PID SNAME FNAME GEN CITY PINCOD SALARY E SALARY
1SHARMAGEETFUDHAMWA RA18214150000
2 SINGH SURINDER M KUPWARA 193222 75000
3 JCOB PETER M BHAWANI 185155 45000
4 ALVIS THOMAS M AHMED 380025 50000
5 MOHAN GAURAV M COOLANGAT 390026 33000
6 AZMI SIMI F NEW DELHI 110021 40000
7KAURMANPREE TFUDHAMWA RA18214142000

29	Samridh	has recently change	ed his school	so he is no	ot aware of the pe	ople, but	3	
	someone is posting negative demeaning comments on his social media profile.							
	He is also getting repeated mails from unknown people. Every time he goes							
	online, he finds someone chasing him online.							
	<ul> <li>i. Samridh is a victim of</li> <li>ii. The action that Samridh should take to handle it.</li> </ul>							
	iiiiiii is a set of moral principles that governs the behavior of a							
	group or individual and regulates the use of computers.							
	OR							
	What do you understand by plagiarism? Why is it a punishable offence?							
	Mentior	any two ways to av	oid plagiaris	m.				
0	Consider	a table "Salesman"	with the fol	lowing dat	a:		3	
	Table : Sa			Ū				
	Sno	Sname	Salary	Bonus	DOJ			
	A01	Beena Mehta	30000	45.23	29-10-2019			
	A02		50000	25.34	13-03-2018			
	B03		30000	35.00	18-03-2017	-		
	B04	Leela Yadav	80000	NULL	31-12-2018			
	COF							
	<b>(</b> i) Display	Gautam Gola L queries using SQL v salesman name an y the month name f	d bonus afte	r rounding	off to zero decim			
	Write SQ (i) Display (ii) Displa	L queries using SQL salesman name an	functions to d bonus afte or the date c ary of the Sal	<b>perform tl</b> r rounding of join of sa esman .	he following ope off to zero decim			
	Write SQ (i) Display (ii) Displa (iii) Displa	L queries using SQL salesman name an y the month name f by the minimum sala	functions to d bonus afte or the date c ary of the Sal O	<b>perform ti</b> r rounding of join of sa esman . <b>R</b>	<b>he following ope</b> off to zero decim lesman.	al places.		
	Write SQ (i) Display (ii) Displa (iii) Displa What is	L queries using SQL v salesman name an y the month name f	functions to d bonus afte or the date c ary of the Sal O	<b>perform ti</b> r rounding of join of sa esman . <b>R</b>	<b>he following ope</b> off to zero decim lesman.	al places.		
	Write SQ (i) Display (ii) Displa (iii) Displa What is	L queries using SQL salesman name an y the month name f by the minimum sala the purpose of GRO	functions to d bonus afte for the date c ary of the Sal O UP BY clause	perform ti r rounding of join of sa esman . R in MySQL	<b>he following ope</b> off to zero decim lesman.	al places.		
	Write SQ (i) Display (ii) Displa (iii) Displa What is	L queries using SQL salesman name an y the month name f by the minimum sala the purpose of GRO	functions to d bonus afte or the date c ary of the Sal O	perform ti r rounding of join of sa esman . R in MySQL	<b>he following ope</b> off to zero decim lesman.	al places.		
31.	Write SQ (i) Display (ii) Displa (iii) Displa What is ORDER E Write s	L queries using SQL y salesman name an y the month name f by the minimum sala the purpose of GRO BY clause?	functions to d bonus afte for the date c ary of the Sal O UP BY clause SECTIO	perform ti r rounding of join of sa esman . R in MySQL DN D	he following ope off to zero decim lesman. ? How is it differe	al places. nt from	5	
31.	Write SQ (i) Display (ii) Displa (iii) Displa What is ORDER F ORDER F Urite s i. Displ	L queries using SQL y salesman name an y the month name f by the minimum sala the purpose of GRO BY clause?	functions to d bonus afte for the date c ary of the Sal O UP BY clause SECTIO	perform ti r rounding of join of sa esman . R in MySQL DN D	he following ope off to zero decim lesman. ? How is it differe	al places. nt from	5	
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32. Trine Tech Corporation (TTC) is a professional consultancy company. The 5 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 Conference **Resources Block** Block Finance Block Blocks to block distance(in meter) Block(From) Block(To) Distance Human Resource Conference 110 Human Resource Finance 40 80 Conference Finance 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. (iii) Which of the following device will be suggested by you to connect each computer in each of the buildings? (a) Switch (b) Modem (c) Gateway (iv) The company is planning to connect its admission office in Hyderabad which is more than 1000 km from company. Which type of network will be formed? (v)what will be the best possible connectivity out f the following you will suggest to connect the new setup of offices in Bangalore with its London based office. a) Satellite Link b) Infrared c) Ethernet 5 33 Mr. Sharma is working in a game development industry and he was comparing the given chart on the basis of the rating of the various games available on the play store.

	5 -									
		4 -			I					
		<u>م</u> ل		Dur Cradu Crad	Dettile Chet D					
		5	ubway SurferTemple	Run Candy Crus Games	n Bottle Shot K	unner Best				
	Write tl	ne pytho	n code for the a	bove graph a	nd Also give	suitable pyth	ion			
		• •	ve this chart.		5					
				OR						
			program to plo							
	-	-	percentage of s	students in C	BSE exams f	or the years 2	015 to			
		s shown								
	-		16,2017,2018]	1						
	Pass_P	ercenta	ge=[82,83,85,90	SECTION	5					
				JECHON	<b>-</b>					
34	Navoon	a datak	ase administrat	or has dosign	od a databa	co for a Comr	utor Stock	1+1+2		
54			ing answers of t	-		•		1,1,5		
	TABLE:	-		ine ronowing	questions of					
		Pid	Pname	Category	Qty	Price				
		1	Keyboard	IQ	15	450				
		2	Mouse	IQ	10	350				
1	2         Mouse         10         30           3         Wi-fi router         NW         5         2600									
	4 Switch NW 3 3000									
			1	-						
			1	-						
		4 5	Switch Printer	NW O	3 4	3000 17000				
		4 5 te a quei	Switch Printer Ty to display prod	NW O duct name in	3 4 upper case.	3000 17000				
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		Year	Month	Passengers			
	0	2010	Jan	25			
	1	2010	Mar	50			
	2	2012	Jan	35			
	3	2010	Dec	55			
	4	2012	Dec	65			
ii. df[df.Passenger iii.Write Python st	atement		the data <b>on for par</b>		of indexes 1 to 3.		
Write the Python code to rename the name of the column name is 'mon_name'in place of "Month" in the above Dataframe.							