B K BIRLA CENTRE FOR EDUCATION (Sarala Birla Group of Schools)

BK BIRLA CENTRE FOR EDUCATION

SARALA BIRLA GROUP OF SCHOOLS SENIOR SECONDARY CO-ED DAY CUM BOYS' RESIDENTIAL SCHOOL

PRE MID-TERM EXAMINATION (2024-25) SUB: INFORMATICS PRACTICES (065)



Duration: 1 Hr

Class: XII SCIENCE / COMMERCE / HUMANITIES

Date: 03-08-2024 Max. Marks: 25

General Instructions:

- 1) All questions are compulsory.
- 2) Attempt all questions in sequence order.
- 3) The paper is divided into three sections A, B & C
- 4) Section-A carry 1 mark question, Section-B carry 2 marks question and Section-C carry 3 marks question.

	question.	
	Section-A (1 to 6)	
1.	How can you drop a column from a DataFrame? a) df.drop('column_name', axis=1) b) df.delete('column_name', axis=1)	1
	b) df.remove('column name', axis=1) d) df.drop column('column name')	
2.	The function to_csv used for converting a DataFrame to a CSV File is found in a) Pandas Module b) CSV Module c) Python Module d) None of these	1
3.	The command used to give a heading to a graph is a) plt.show() b) plt.plot() c) plt.xlabel() d)plt.title()	1
4.	Which of the following functions returns the position of a substring in a given string? a) mid() b) instr() c) substr() d) char()	1
	ASSERTION & REASONS	
5.	Direction: In the questions given below, there are two statements marked as Assertion (A) and Reason (R) . Choose the correct option out of the choices given below in each question: Assertion (A): Data Integrity means that data is accurate and consistent in the database. Reason (R): Data integrity also ensures that your data is safe from any outside forces. a) Both (A) and (R) are correct and (R) is correct explanation of (A). b) Both (A) and (R) are correct and (R) is not the correct explanation of (A). c) (A) is True but (R) is False. d) (A) is False but (R) is True.	1
6.	Assertion (A): There can be multiple primary key in a table. Reason (R): Duplicate values cannot be entered in primary key. a) Both (A) and (R) are correct and (R) is correct explanation of (A). b) Both (A) and (R) are correct and (R) is not the correct explanation of (A). c) (A) is True but (R) is False. d) (A) is False but (R) is True.	1
	Section-B (7 to 14)	
7.	Define DataFrame. Write at-least two main characteristics of it. (related to Python)	2
8.	Write a Python code to create a DataFrame (DF1) of the given output using dictionary. one two three r1 11 21 31 r2 12 22 32 r3 13 23 33 r4 14 24 34	2

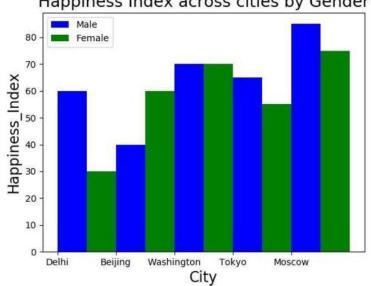
9.	Gaurav has following data and he wants to create a bar graph. Help him to write a code to
	draw a bar graph of the given type :

2

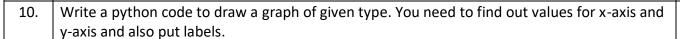
2

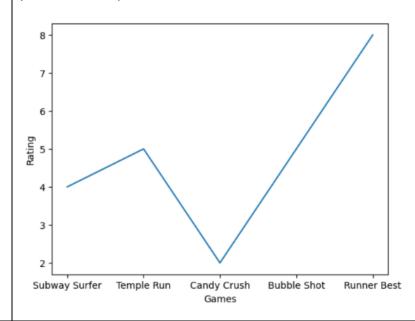
City	Happiness_Index Male	Happiness_Index Female
Delhi	60	30
Beijing	40	60
Washington	70	70
Tokyo	65	55
Moscow	85	75

Happiness Index across cities by Gender



Note: There are two bar graphs. Give label in both axis and also legends





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			about st	udents. The file has t	ne following colu	imns: (Datafile	2
	name is "stu	dent.csv")					
	Name, age, §	gender, grade					
	Write a Pyth	on program to in	nport the	data from the CSV fi	le into a DataFra	me.	
12.	Consider the	following table	'Transno	rter' that stores the c	order details abou	ut items to he	2
12.		_	-			at items to be	
	transported. Write SQL query for the given statements. (Any two)						
	-		Table	: TRANSPORTER			
	ORDERNO	DRIVERNAME	DGRD	ITEM	TRAVELDATE	DESTINATION	
	10012	RAM YADAV	A	TELEVISION	2019-04-19	MUMBAI	
	10014	SOMNATH SINGH		FURNITURE	2019-01-12	PUNE	
	10016	MOHAN	В	WASHING	2019-06-06	LUCKNOW	
		VERMA		MACHINE	2019 00 00	Beern to th	
	10018	RISHI SINGH	A	REFRIGERATOR	2019-04-07	MUMBAI	
	10019	RADHE		TELEVISION	2019-05-30	UDAIPUR	
	10020	MOHAN BISHEN	В	REFRIGERATOR	2019-05-02	MUMBAI	
	10020	PRATAP		REFRIGERATION	2019-03-02	WICINIDI	
	10021	RAM		TELEVISION	2019-05-03	PUNE	
	(iii) To displa should be no	y the names of conduction duplicate values	lestinatio s.	ations where destina n cities where items			
13.	(iii) To displa should be no Find the outp a) SELECT RIG b) SELECT SU	y the names of conduction of the following t	lestinatios. ng SQL s M', 4); MATELY',8	n cities where items statements.	are being transpo		2
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14.	(iii) To displa should be no Find the outr a) SELECT RIG b) SELECT SU What is MyS A Gift Galler database of Name of the Name of the	y the names of conduction of the following out of t	ng SQL s M', 4); MATELY',8 t differen ores in In n SQL to s allery	statements. 3, 5); It types with example ection-C (Q.No.15) Idia. Database Administore the data, He has	es. istrator Abhay w	orted. There	2
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14.	(iii) To displate should be not should be no	y the names of conduction of the following out of t	ng SQL s mg SQL s M', 4); MATELY',8 t differen So ores in In n SQL to s allery e Constra Primary Not Nul	statements. 3, 5); It types with example ection-C (Q.No.15) Idia. Database Admin tore the data, He has int Key	es. istrator Abhay w	orted. There	2
14.	(iii) To displate should be not should be no	y the names of conduplicate values of duplicate values out of the following GHT('MALAYALA JBSTR('APPROXIM') QL function? List their Salesmen in database: GiftGatable: Salesman satype Sizemeric 5 aracter 25 ara	ng SQL s mg SQL s M', 4); MATELY',8 t differen So ores in In n SQL to s allery e Constra Primary Not Nul	statements. 3, 5); It types with example ection-C (Q.No.15) Idia. Database Admin tore the data, He has int Key	es. istrator Abhay w	orted. There	2