### MARKING SCHEME CLASS XII SESSION: 2024-25 INFORMATICS PRACTICES (065)

Time allowed: 3 Hours Maximum Marks:70

Q No.	Section-A	Marks
1	True	1
	(1 mark for correct answer)	1
2	(B). Filter rows based on a specific condition	1
	(1 mark for correct answer)	'
3	(D). Router	1
	(1 mark for correct answer)	'
4	(A). DROP TABLE	1
	(1 mark for correct answer)	'
5	(D). Electronic devices that are no longer in use	1
	(1 mark for correct answer)	<b>'</b>
6	(B). df['column_name']	1
	(1 mark for correct answer)	'
7	(D). line	1
	(1 mark for correct answer)	
8	True	1
	(1 mark for correct answer)	
9	(B). pd.read_csv('filename.csv')	1
	(1 mark for correct answer)	'
10	(A) Using copyrighted material without giving proper acknowledgement to	
	the source	1
	(1 mark for correct answer)	
11	(D). Rows	1
	(1 mark for correct answer)	
12	(A). Star	1

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	(1 mark for correct answer)			
13	(D). 5 (1 mark for correct answer)	1		
14	(B). Phishing (1 mark for correct answer)	1		
15	(B). Indices of the Series (1 mark for correct answer)			
16	(B). P-2, Q-4, R-1, S-3 (1 mark for correct answer)			
17	(D). Filtering data based on condition (1 mark for correct answer)			
18	(C). Line plot (1 mark for correct answer)			
19	(C). LAN (1 mark for correct answer)			
20	(A). Both Assertion (A) and Reason (R) are true, and Reason (R) is the correct explanation of Assertion (A)  (1 mark for correct answer)			
21	(D). Assertion (A) is False, but Reason (R) is True  (1 mark for correct answer)			
Q No.	Section-B (7 x 2 = 14 Marks)	Marks		
22	(A) A Series is a one-dimensional array containing a sequence of values of any data type (int, float, list, string, etc) which by default have numeric data labels starting from zero.  We can imagine a Pandas Series as a column in a spreadsheet. An example of a series containing the names of students is given below:  Index Value  O Arnab  Samridhi  Ramit  Divyam  (1 mark for correct definition)	2		

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		(1 mark for correct example)	
		OR	
	(B)	Library: A collection of modules providing functionalities for specific tasks.	
		Pandas: Used for data analysis	
		Matplotlib: Used for creating plots	
		(1 mark for correct definition)	
		(1/2 mark each for correct use of each library)	
23	Inte	llectual Property Rights (IPR)	
	The	se are legal rights that protect the creations of the human intellect. The nature	
	of th	ese works can be artistic, literary or technical etc.	
	Imp	ortance in the digital world	
	The	se rights help prevent the unauthorized use or reproduction of digital content	2
	and	ensure that creators are fairly compensated and incentivized for their original	
	work	ζ.	
	(1 m	park for correct definition)	
	(1 m	park for correct importance)	
24		I. SELECT SUBSTRING('Database Management System', 10, 6);	
		II. SELECT INSTR('Database Management System', 'base');	2
	(1 m	park for each correct query)	
25	(A)	The Internet is a vast network of interconnected computer networks	
25	(A)	The Internet is a vast network of interconnected computer networks facilitating global communication and data exchange. The World Wide Web	
25	(A)	·	
25	(A)	facilitating global communication and data exchange. The World Wide Web	
25	(A)	facilitating global communication and data exchange. The World Wide Web (WWW), on the other hand, is a system of interlinked hypertext documents	
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25	(A)	facilitating global communication and data exchange. The World Wide Web (WWW), on the other hand, is a system of interlinked hypertext documents accessed via the Internet.  (1 mark for correct definition)  (1 mark for correct difference)	2
25		facilitating global communication and data exchange. The World Wide Web (WWW), on the other hand, is a system of interlinked hypertext documents accessed via the Internet.  (1 mark for correct definition)  (1 mark for correct difference)  OR	2
25		facilitating global communication and data exchange. The World Wide Web (WWW), on the other hand, is a system of interlinked hypertext documents accessed via the Internet.  (1 mark for correct definition)  (1 mark for correct difference)  OR  Browser cookies: Small pieces of data stored on our digital devices by	2
25		facilitating global communication and data exchange. The World Wide Web (WWW), on the other hand, is a system of interlinked hypertext documents accessed via the Internet.  (1 mark for correct definition)  (1 mark for correct difference)  OR  Browser cookies: Small pieces of data stored on our digital devices by websites to remember information and personalize our experience.	2
25		facilitating global communication and data exchange. The World Wide Web (WWW), on the other hand, is a system of interlinked hypertext documents accessed via the Internet.  (1 mark for correct definition)  (1 mark for correct difference)  OR  Browser cookies: Small pieces of data stored on our digital devices by websites to remember information and personalize our experience.  Advantage: Improve user experience by remembering preferences, like our	2



26	Prim	nary Key: A set of attributes that can uniquely identify each row in a table	
20		ation). It must contain unique values and cannot be null.	
		it differs from Candidate Key	
		re can be multiple Candidate Keys in a table (relation), but only one of them	2
		elected as Primary Key.	
	,	park for correct definition)	
	(1111	nark for correct difference)	
27	Two health concerns due to excessive use of Digital Devices:		
	а	a) Eye strain and vision problems.	2
	b	) Musculoskeletal issues like neck and back pain.	_
	(1 m	nark for each correct health concern)	
28	(A)	import pandas as pd	
		D1 = {'Name': 'Rakshit', 'Age': 25}	
		D2 = {'Name': 'Paul', 'Age': 30}	
		D3 = {'Name': <u>'Ayesha'</u> , 'Age': 28}	
		data = [D1, D2, D3]	
		df = pd. <u>DataFrame</u> (data)	
		print(df)	
		Changes Made :	
		i. Changed Pandas to pandas.	
		ii. Corrected mismatched string quotation marks	
			2
		Ö i	
		<u> </u>	
		(1/2 mark for each correct correction and underlining)	
		OR	
	(D)		
	(B)	import pandas as pd	
		data = ['Chennai', ' <u>Lucknow'</u> , 'Imphal']	
		indx = ['Tamil Nadu','Uttar Pradesh','Manipur']	
		s = pd.Series( <u>data</u> , indx)	
		print( <u>s</u> )	
		(1/2 mark for each correct fill in the blank)	

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Q No		Section-C (4 x 3 = 12 Marks)	Marks
29	I.	E-waste can release harmful substances like lead and mercury into the	
	/1 m	environment.	
	,	They can denote an call it to a cartified a waste requaling center	
	.	They can donate or sell it to a certified e-waste recycling center.	3
	III.	Recycling e-waste helps conserve natural resources and reduces	
		pollution.	
	(1 m	ark for correct answer)	
30	(A)	import pandas as pd	
		d1 = {'Product': 'Laptop', 'Price': 60000}	
		d2 = {'Product': 'Desktop', 'Price': 45000}	
		d3 = {'Product': 'Monitor', 'Price': 15000}	
		d4 = {'Product': 'Tablet', 'Price': 30000}	
		data = [d1, d2, d3, d4]	
		df = pd.DataFrame(data)	
		print(df)	
		(1 mark for correct import statement)	
		(1 mark for correct list of dictionary)	3
		(1 mark for correct creation of DataFrame)	
		OR	
	(B)	import pandas as pd	
		data = {'Russia':'Moscow','Hungary':'Budapest','Switzerland':'Bern'}	
		s = pd.Series(data)	
		print(s)	
		(1 mark for correct import statement)	
		(1 mark for correct dictionary)	
		(1 mark for correct creation of Series)	
31	I.		
		CREATE TABLE STUDENTS (	3
		StudentID NUMERIC PRIMARY KEY,	
		FirstName VARCHAR(20),	

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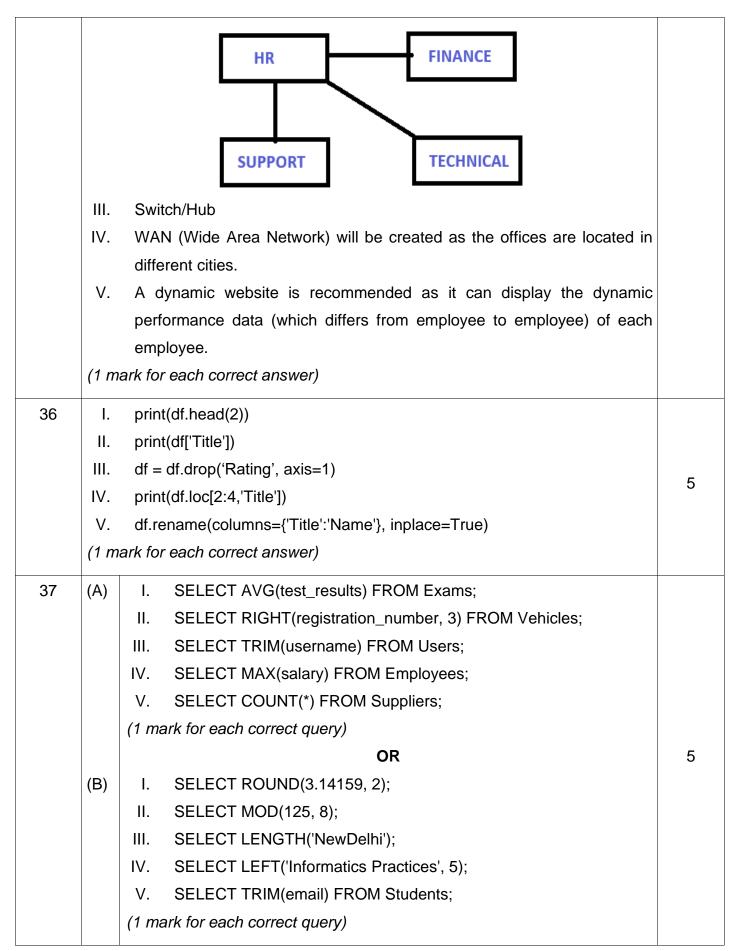
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		LastName VARCHAR(10),	
		DateOfBirth DATE,	
		Percentage FLOAT(10,2)	
		);	
		(2 mark for correct creation of Table)	
	II.		
		INSERT INTO STUDENTS (StudentID, FirstName, LastName,	
		DateOfBirth, Percentage) VALUES (1, 'Supriya', 'Singh', '2010-08-18',	
		75.5);	
		(1 Mark for correct insert Query)	
32	(A)	I. SELECT DEPARTMENT, AVG(SALARY) FROM PAYROLL	
		GROUP BY DEPARTMENT;	
		II. SELECT DESIGNATION FROM PAYROLL ORDER BY SALARY	
		DESC;	
		III. SELECT EMP_NAME, DEPARTMENT FROM EMPLOYEE E,	
		PAYROLL P WHERE E.EMP_ID=P.EMP_ID;	
		(1 mark for each correct query)	
		OR	
	(B)	I. SELECT SPORT,SUM(Medals) FROM MEDALS GROUP BY	3
		SPORT;	
		II. SELECT UPPER(Name) FROM ATHLETE WHERE COUNTRY	
		= 'INDIA';	
		III. SELECT NAME, SPORT FROM ATHLETE A, MEDALS M	
		WHERE	
		A.AthleteID= M.AthleteID;	
		(1 mark for each correct query)	
Q No.		Section-D (2 x 4 = 8 Marks)	Marks
Q NO.		Section-D (2 x 4 = 0 Mai ks)	Walks
33	I.	matplotlib.pyplot	
	II.	books_read	
	III.	ylabel	4
	IV.	Number of Books Read by Students	
	(1 m	nark for each correct answer)	

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34	(A)	I. SELECT LOWER(TITLE) FROM BOOK;	
		II. SELECT MAX(PRICE) FROM BOOK;	
		III. SELECT LENGTH(TITLE) FROM BOOK;	
		IV. SELECT BCODE, PRICE FROM BOOK ORDER BY PRICE DESC;	
		(1 mark for each correct answer)	
		OR	
	(B)	I.	
		LENGTH(MED_NAME)	
		11	
		11	
		7	
		II.	4
		MED_NAME	
		IBUPROFEN	
		III.	
		MED_NAME	
		PARACETAMOL	
		COUGH SYRUP	
		INSULIN	
		IV.	
		max(DEL_DATE)	
		2023-06-15	
		(1 mark for each correct answer)	
Q No.		Section-E (3 x 5 = 15 Marks)	Marks
35	l.	The server should be installed in the HR department as it has the most	
		number of computers.	5
	II.	Star topology	





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