

BUDHA DAL PUBLIC SCHOOL, PATIALA

TERM-I EXAMINATION (SEPT. 2025) SET:-A

CLASS: - XII, SUBJECT: - INFORMATICS PRACTICES (CODE:- 065)

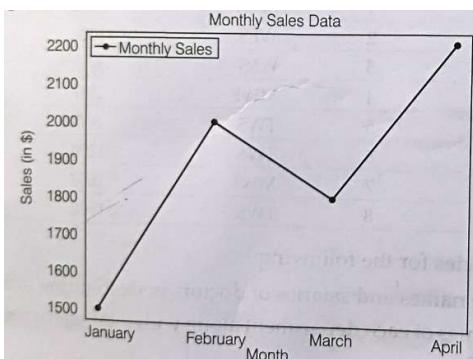
Time: 3 Hours

Max. Marks: 70

General Instructions:

1. This question paper contains 37 questions.
2. All questions are compulsory.
3. The paper is divided into 5 Sections- A, B, C, D and E.
4. Section A consists of 21 questions (1 to 21). Each question carries 1 Mark.
5. Section B consists of 7 questions (22 to 28). Each question carries 2 Marks.
6. Section C consists of 4 questions (29 to 32). Each question carries 3 Marks.
7. Section D consists of 2 questions (33 to 34). Each question carries 4 Marks.
8. Section E consists of 3 questions (35 to 37). Each question carries 5 Marks.

	(a) sort() (b) order() (c) sort_values() (d) sort_index()	
12.	Which of the following reads data from csv files? (a) get_csv() (b) read_csv() (c) csv_read() (d) read()	1
13.	Which of the following allows you to connect and login to a remote computer? (a) SMTP (b) HTTP (c) FTP (d) Telnet	1
14.	A two –dimensional labeled array that is an ordered collection of columns to store heterogeneous data types is: (a) Series (b) NumPy array (c) Dataframe (d) Panel	1
15.	In which topology are all the nodes connected through a single Coaxial cable? (a) Star (b) Tree (c) Bus (d) Ring	1
16.	The part of chart which identifies different sets of data plotted on plot by using different colors is called: (a) Legends (b) title (c) axes (d) figure	1
17.	Which argument must be set with plotting functions for legend() to display the legends? (a) data (b) label (c) name (d) sequence	
18.	Which of these is not a communication channel? (i) Satellite (ii) Microwave (iii) Radio Wave (iv) Wi-Fi	
19.	Which is a Python package used for 2D graphics? a) matplotlib.pyplot b) matplotlib.pip c) matplotlib.numpy d) matplotlib.plt	
Q20 and 21 are ASSERTION AND REASONING based questions. Mark the correct choice as	a) Both A and R are true and R is the correct explanation for A b) Both A and R are true and R is not the correct explanation for A c) A is True but R is False. d) A is False but R is True.	1
20.	Assertion (A) DataFrame has both a row and column index. Reason (R) A DataFrame is a two-dimensional labelled data structure like a table of MySQL.	
21.	Assertion (A): A Repeater is a device that amplifies the network over geographical distance. Reasoning(R): A Hub is device which is used to connect more than one device in the network.	1
SECTION-B 7X2=14		
22.	Name any two most popularly used Internet browsers.	2
23.	import pandas as pd name=['Raj','Ankur','Harsh'] p=pd.Series(name,index=[2,5,6]) print(p) p1=p.reindex([2,4,5]) print (p1)	2
24.	What is VoIP?	2
25.	Give two guidelines to prevent the virus attack.	2
26.	List some benefits of networking. Name any two components required for networking.	2

27.	What is Pandas Series?	2										
28.	What will be the output of the following code: Import pandas as pd s1=pd.Series([1,2,3,6,'Aman',88.5]) print(s1.head(3))	2										
SECTION-C 4X3=12												
29.	Write a Python code to create a DataFrame with appropriate headings from the list given below: ['S101', 'Amy', 70], ['S102', 'Bandhi', 69], ['S104', 'Cathy', 75], ['S105', 'Gundaho', 82]	3										
30.	What is data visualization? What is its significance?	3										
31.	What is modem? What are the two types of Modem?	3										
32.	Explain the difference between the <code>head()</code> and <code>tail()</code> functions in Pandas.	3										
SECTION-D 2X4=8												
33.	During a practical exam, a student, Ravi, has to fill in the blanks in a Python program that generates a line chart. This line chart represents the monthly sales of a store over four months. <table><thead><tr><th>Month</th><th>Sales (in \$)</th></tr></thead><tbody><tr><td>January</td><td>1500</td></tr><tr><td>February</td><td>2000</td></tr><tr><td>March</td><td>1800</td></tr><tr><td>April</td><td>2200</td></tr></tbody></table> Help Ravi to complete the code.	Month	Sales (in \$)	January	1500	February	2000	March	1800	April	2200	4
Month	Sales (in \$)											
January	1500											
February	2000											
March	1800											
April	2200											
												
<pre>import _____ as plt #Statement-1 months = ['January', 'February', 'March', 'April'] sales [1500, 2000, 1800, 2200] plt.plot(months,_____ marker='o', label='Monthly Sales') #Statement-2 plt.xlabel('Month') plt._____ ('Sales (in \$)') #Statement-3 plt.legend() plt.title('_____ ') #Statement-4</pre>												

	for a wired connectivity.	
35.	Write a program to plot a bar chart to depict the changing weekly onion prices for four weeks. Give appropriate axes labels. Week=[1,2,3,4] Price=[50,100,150,90]	5