

# AISSCE(XII)

## Subject : INFORMATICS PRACTICES PRACTICAL (065)

Max. Marks : 30

Time Allowed : 3 hours

### PYTHON PANDAS AND DATA VISUALIZATION

(08)

Q.1. Write a python code for the following questions :

Data –

	BNO	NAME	SCORE1	SCORE2
10	1	Sunil Pillai	90	80
20	2	Gaurav Sharma	65	45
30	3	Piyush Goel	70	95
40	4	Kartik Thakur	80	76

1. To create the dictionary **data** of the above table and print the dictionary. (2)
2. To create the data frame “STU” from the dictionary data. (1)
3. To add the new column total which is sum of score 1 and score 2 and print the column. (1)
4. To print the maximum score from score1 column. (1)
5. To create the line graph for Score1, Score2 and Total. Use appropriate title. (3)

### SQL QUERIES

(07)

Q.2. Consider few records of the TABLE : GRADUATE. Write SQL queries to do the following :

SNO	NAME	STIPEND	SUBJECT	AVERAGE	DIVISION
1	KARAN	400	PHYSICS	68	I
2	DIWAKAR	450	COMPUTER	68	I
3	SABINA	400	CHEMISTRY	55	II
4	RUBINA	500	COMPUTER	67	I

1. List the names of those students who have obtained division I sorted by NAME.
2. Display a report, listing NAME, STIPEND, SUBJECT and amount of stipend received in a year assuming that the STIPEND is paid every month.
3. Add a new column name PHNO Varchar(12).
4. Display the maximum stipend earned per division.
5. Display those subject names where the count of students is LESS than 2.
6. Number of records in each DIVISION.
7. Delete all records.

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