## KENDRIYA VIDYALAYA 9 BRD PUNE MONTHLY TEST APRIL

TIME: 40 MIN MM:25 Q.1 Suppose a data frame contains information about student having columns rollno, name, class and section. Write the code for the following: (i) Add one more column as fee and city. (ii) Write syntax to transpose data frame. (iii) Write python code to delete column fee of data frame. (iv) Write the code to append df2 with df1 Q.2 Assume following data is stored in data frame named as df1 5 Write following commands: (i) Find total sales per state (ii) find total sales per employee (iii)find total sales both employee wise and state wise (iv)find mean, median and min sale state wise (v)find maximum sale by individual Name of Employee State Sales Quarter 125600 Delhi **RSahay** 1 George 235600 1 **Tamil Naidu** JayaPriya 213400 1 Kerala ManilaSahai 189000 1 Haryana RymaSen 456000 1 **West Bengal** ManilaSahai 172000 2 Haryana JayaPriya 201400 2 Kerala Q.3 State the difference between sort\_index() and sort\_values() methods. 2 Q.4 (a) a = pd.DataFrame([1, 1, 1, np.nan], index=['a', 'b', 'c', 'd'],columns=['one']). What is O/P? 2 (b) import pandas as pd 2 data = [1,2,3,4,5]df = pd.DataFrame(data) print (df) What will Print in Output? Q.5 Differentiate between series data structure and data frame data structure? 2 Q.6 Write Output? 2 import pandas as pd data = [{'a': 1, 'b': 2},{'a': 5, 'b': 10, 'c': 20}] #With two column indices, values same as dictionary keys df1 = pd.DataFrame(data, index=['first', 'second'], columns=['a', 'b']) #With two column indices with one index with other name df2 = pd.DataFrame(data, index=['first', 'second'], columns=['a','b1']) print(df1) print(df2) Q. 7 (a) What is Python pandas? 1 b) What are differences between reindex() and rename()? 2

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c) What is the use of pipe() in python pandas?

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