## **Advanced Python test**

Time: 2 Hrs. 30 Marks

		1
1	Create a 5X2 integer array from a range between 100 to 200 such that the difference between each element is 10  Expected Output:  Creating 5X2 array using numpy.arange [[100 110] [120 130] [140 150] [160 170] [180 190]]	6
2	Following is the given numpy array return array of odd rows and even columns import numpy sampleArray = numpy.array([[3 ,6, 9, 12], [15 ,18, 21, 24], [27 ,30, 33, 36], [39 ,42, 45, 48], [51 ,54, 57, 60]])  Expected Output:  Printing Input Array [[ 3 6 9 12]	6
	[[ 5  6  9  12 ]	
3	Concatenate two data frames using the following conditions  Create two data frames using the following two dictionaries, concatenate those two data frames and create a key for each data frame.	6

 JapaneseCar 'Price': [2999				da', 'Nissan', 'Mitsubishi '],	
Expected Ou	tpu	t:			
		Company	Price		
Germany	0	Ford	23845		
	1	Mercedes	171995		
	2	BMV	135925		
	3	Audi	71400		
Japan	0	Toyota	29995		
	1	Honda	23600		
	2	Nissan	61500		
	3	Mitsubishi	58900		
'Matthew', 'l 'score': [12.5 'attempts': [	Laur 5, 9, 1, 3, es', '	na', 'Kevin', 'J 16.5, np.nai 2, 3, 2, 3, 1 no', 'yes', 'no	onas'], n, 9, 20, 1 , 1, 2, 1], o', 'no', 'y	Catherine', 'James', 'Emily', 'Michael', o.nan, 8, 19], os', 'no', 'no', 'yes']}	6
labels = ['a', 'Expected Ou Number of R	•				

stu	dent_dat	:a1:	
	udent_id	name	marks
0	S1	Danniella Fentor	
1	S2	Ryder Storey	210
2	S3	Bryce Jensen	190
3	S4	Ed Bernal	222
4	<b>S</b> 5	Kwame Morin	199
stu	dent_dat	:a2:	
	udent id	name	marks
0	S4	Scarlette Fishe	
1	S5	Carla Williams	
2	S6	Dante Morse	198
3	<b>S</b> 7	Kaiser William	
4	S8	Madeeha Pres	
	m_data:		
		exam_id	
0	S1	23	
1	S2	45	
2	S3	12	
3	S4	67	
4	S5	21	
5	S7	55	
6	S8	33	
7	S9	14	
8	S10	56	
9	S11	83	
10	S12	88	

S13