

CLASS:XI	<b>INDIAN SCHOOL MUSCAT SECOND PERIODIC ASSESSMENT MARKING SCHEME</b>	SUBJECT: INFORMATICS PRACTICES																				
<b>SET - A</b>																						
QP.NO.	VALUE POINTS	SPLIT UP MARKS																				
1.	Output: >	1																				
2.	Output: OneOneOne\$TwoTwoTwo\$ThreeThreeThree\$False ½ mark for each value followed by \$	2																				
3.	(a) City[5] = "Pune" (b) City[3] = "Agra" (c) del City[2] (d) print(City[4]) or print(City.get(4)) ½ mark for each statement	2																				
4.	itemsize	1																				
5.	S=np.ones(20)	1																				
6.	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;"><b>List</b></th> <th style="text-align: center;"><b>NumPy Array</b></th> </tr> </thead> <tbody> <tr> <td>• Can have different data types</td> <td>same data type</td> </tr> <tr> <td>• Elements not stored</td> <td>stored in contiguous</td> </tr> <tr> <td>memory contiguously in</td> <td>memory locations</td> </tr> <tr> <td>memory</td> <td></td> </tr> <tr> <td>• Do not support element</td> <td>support element wise</td> </tr> <tr> <td>wise operations.</td> <td>Operations.</td> </tr> <tr> <td>• Takes more memory space.</td> <td>Takes less memory</td> </tr> <tr> <td></td> <td>space</td> </tr> <tr> <td>• Part of core python</td> <td>Part of NumPy library</td> </tr> </tbody> </table> any one difference between a list and a NumPy array.	<b>List</b>	<b>NumPy Array</b>	• Can have different data types	same data type	• Elements not stored	stored in contiguous	memory contiguously in	memory locations	memory		• Do not support element	support element wise	wise operations.	Operations.	• Takes more memory space.	Takes less memory		space	• Part of core python	Part of NumPy library	1
<b>List</b>	<b>NumPy Array</b>																					
• Can have different data types	same data type																					
• Elements not stored	stored in contiguous																					
memory contiguously in	memory locations																					
memory																						
• Do not support element	support element wise																					
wise operations.	Operations.																					
• Takes more memory space.	Takes less memory																					
	space																					
• Part of core python	Part of NumPy library																					
7.	(a) [34 56] (b) [ [34] [56] [94] ] (c) [51] (d) [ [21 51] [67 83] [78 90] ] ½ mark for each output	2																				
8.	import numpy as np A=np.array([[1,2,3],[4,5,6],[7,8,9]]) Y=np.extract(A%4==0,A) print(Y)	2																				
9.	Output: [[34 35 36 24 25 26] [82 83 84 17 18 19]] [[34 35 36] [82 83 84] [24 25 26] [17 18 19]] 1 mark for each array	2																				
10.	One,two,third=np.vsplit(K,3)	2																				

	One,two,third=np.vsplit(K,[2,4]) One,two,third=np.split(K,3) One,two,third=np.split(K,[2,4]) 1 mark each for any two statements	
11.	<pre>import numpy as np G=np.array([[34,67],[89,23]]) H=np.array([[90,12],[48,79]]) a=np.sum(G, axis=1) print(a) print(H/5) <b>(or)</b> print(np.divide(H,5)) print(H%G) <b>(or)</b> print(np.mod(H,G)) print(G.T) <b>(or)</b> print(G.transpose()) <b>(or)</b> print(np.transpose(G))</pre> <p>1 mark for creating 2 ndarrays  <math>\frac{1}{2}</math> mark for each operation (<math>1/2 * 4 = 2</math> marks)  1 mark for displaying all results</p>	4