



INDIAN SCHOOL MUSCAT

SECOND PERIODIC TEST

**INFORMATICS PRACTICES (065)**

CLASS: XII

MAX. MARKS: 20

DATE: 09/05/2021

TIME ALLOWED: 40 MINUTES

INSTRUCTIONS: All the Questions are compulsory

- Q1. Define Data and Write any two purpose of data using in python. 2
- Q2. Explain all the stages of data processing. 2
- Q3. Define Array with an example. 2
- Q4. Explain any two ways(functions) of creating a one-dimensional array in python. 2
- Q5. Explain the following attribute of two-dimensional array in NumPy. 2
(a) Size (b) reshape()
- Q6. Find the output of the following: 2
 >>>import numpy as n
 >>>s=n.array([20,30,40,50])
 >>>s=s+5 #find the value of s
 >>>print(s)
 >>s=s/2 #find the value of s
 >>>print(s)
- Q7. Create the following NumPy arrays: 2
 a) A 1-D array called vowels having the elements 'a', 'e', 'i', 'o' and 'u'.
 b) A 2-D array called ones having 2 rows and 5 columns and all the elements are set to 1 and dtype as int.
- Q8. >>> s2=n.array([[1,2,3],[4,5,6],[8,9,10]]) 2
 >>> print(s2)
 [[1 2 3]
 [4 5 6]
 [8 9 10]]
 Write the python command to do the following.
 1)Find the square of each element in the array s2.
 2)Add 10 to each element in the array s2.
- Q9. Write any one differences between Pandas and NumPy. 1
- Q10. Explain any two ways of creating Series in Pandas with an example. 2
- Q11. Find the output of the follwoingL 1
 >>> a=p.Series([20,30,40,10])
 >>>a[1:2]

End o the Question Paper