



ADMISSION NUMBER

School of Business

Bachelor of Business Administration
Semester End Examination - Aug 2024

Duration : 180 Minutes
Max Marks : 100

Sem VI - D1UF603T - Python Programming

General Instructions

Answer to the specific question asked

Draw neat, labelled diagrams wherever necessary

Approved data hand books are allowed subject to verification by the Invigilator

- 1) What basic syntax will you use to work with numpy ? Give examples for arrays and sequencing of numbers. K3(6)
- 2) Write python code using Pandas library for following: K3(9)
 - a) Deleting rows and columns by drop
 - b) Setting DataFrame index by set_index
 - c) Sorting values on either axis via sort_values.
- 3) Discuss the notation [start:end:step] using examples. What index we can use to get last item in a list. K4(4)
- 4) Write code to count number of items in following list: K4(8)
bar = ['spam', [2, 'eggs'], 82.96, True, 22]
- 5) birds = ['peacock', 'duck', 'woodpecker', 'honbill', 'jay', 'cuckoo', 'goldfinch', 'flamingo', 'hen', 'sparrow'] K4(8)
Use above dataset and
 - a) Write codes to insert 'seagull' at index 1, also append 'owl' at the end of list.
 - b) Write code to remove bird at index 3, also remove 'hen' from the list.
- 6) Age = 36 K5(10)
Use an appropriate loop and dot format method to get following output.
you are currently 36 years old
you are currently 37 years old
you are currently 38 years old
you are currently 39 years old
you are currently 40 years old
- 7) Is the number less than 2? K5(10)
number = 5
Write code using conditional logic.
- 8) Evaluate output for following: K5(15)
a = np.array([[1, 2, 3], [3, 4,5]], dtype=np.float64)
print(a) (5 marks)

- print(a[0,1]) (5 marks)
 print(a[1,2]) (5 marks)
- 9) apple = [30 31 32 33 34 35 36 37 38 39] K6(12)
 Write code to select last three elements of above (6
 marks)
 Write code to select first three elements of above (6
 marks)
- 10) A} Use conditional logic to complete the function given below K6(18)
 (9 marks)
 def fizzbuzz(n):
 """
 For multiples of both three and five, print "FizzBuzz"
 For multiples of three, print "Fizz"
 For multiples of five, print "Buzz"
 For others, print the number

 Keyword arguments:
 n -- the number to test
 """
- B} After writing code for above function, use while loop and dot
 format method to get following output- (9 marks)
- n = 1: 1
 n = 2: 2
 n = 3: fizz
 n = 4: 4
 n = 5: buzz
 n = 6: fizz
 n = 7: 7
 n = 8: 8
 n = 9: fizz
 n = 10: buzz
 n = 11: 11
 n = 12: fizz
 n = 13: 13
 n = 14: 14
 n = 15: fizzbuzz