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pandas Total questions: 118 Worksheet time: 1hrs 10mins Instructor name: Mohd. Khan	Name Class Date
1. Which is not a feature of series	
a) Mutable data	b) Multiple rows
c) Immutable size	d) Homogeneous data
2. Dataframe have	
a) Mutable size	b) Mutable data
c) All of above	d) 2D Array
3. Which package should be needed for series	
a) Random	b) Maths
c) Statistic	d) Pandas
4. Full form of NaN is	
a) Not a Number	b) Not a Null
c) None of these	d) Not a Numeric

5.	Dataframe can be created using		
	a) List	b)	All of these
	c) Array	d)	Dictionary
6.	Full form of CSV file is		
	a) Common Separated Value	b)	Common System Value
	c) Comma Separated Vault	d)	Comma Separated Value
7.	Not a function of Dataframe		
	a) loc()	b)	Tail()
	c) Head()	d)	multi()
8.	which functions used to transfer data from dataframe to CSV files		
	a) from_dataframe()	b)	df_csv()
	c) to_csv()	d)	to_data()
9.	Dataframe can contain multiple series		
	a) False	b)	True

10.	Which is true for series.	
	a) Size is mutable, Values is mutable	b) none
	c) size is immutable,values is mutable	d) size is mutable, values is immutable.
11.	Series.tail(3) will return how many values.	
	a) 5 values	b) none
	c) 3 values from front	d) 3 values from last
12.	Series.head() will return how many rows.	
12,		
	a) 5	b) 4
	c) 2	d) 3
13.	To extract subset from Series,the following function is used	
	a) row()	b) all
	c) loc()	d) column()
14.	we can analyze the data in pandas with :	
	a) Both	b) none
	c) Series	d) Dataframe

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a) 3 Dimensional array

b) 1 Dimensional Array

c) 2 Dimensional array

d) none of above

16. Minimum number of argument we require to pass in pandas series?

a) 1

b) 3

c) 2

d) 0

17. In data science, which of the python library are more popular?

a) pandas

b) numpy

c) django

d) none

18. Which is not a feature of series

a) Multiple rows

b) Homogeneous data

c) Immutable size

d) Mutable data

19. Series can be created from

a) Dictionary

b) Array

c) All of them

d) Scatter value

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20.	vvnicn	package	should be	e neeaea	ror	series

a) Maths

b) Pandas

c) Statistic

d) Random

21. Full form of NaN is

a) Not a Number

b) None of these

c) Not a Numeric

d) Not a Null

22. Data structures in Pandas can be mutated in the terms of ____ but not of ____.

a) none of the above

b) size, value

c) value, size

d) semantic, size

23. pandas is a:

a) Dataframe

b) Data Structure

c) Library

d) Series

- 24. Write the output for the following: import pandas as pd1 s = pd1.Series(5, index=[0, 1, 2, 3]) print(s)
 - a) 0 51 52 53 5dtype: object
 - c) 0 5 1 5 2 5 3 5 dtype: int64

- b) 15
 - 25 25 45
 - dtype: int64
- d) 05

25. write the output:

import pandas as pd1

s = pd1.Series([1,2,3])

t = pd1.Series([1,2,4])

u=s-t

print (u)

- a) 00
 - 10
 - 2 -1

dtype: int64

- c) 01
 - 10
 - 21

dtype: int64

26. write the output:

import pandas as pd

s=pd.Series([1,2,3,4],index=['a','b','c','d'])

print(s.iloc[2:4])

- a) none of the above
- c) b 2
 - c 3
 - d 4

dtype: int64

- b) 00
 - 10
 - 2 1

dtype: int64

- d) 00
 - 10
 - 2 -1

dtype: float64

- b) c3
 - d 4

dtype: int64

- d) b3
 - c 4

dtype: int64

27. write the output:
import pandas as pd
s=pd.Series([1,2,3,4],index=['a','b','c','d'])
print(s.loc['b':'d'])

- a) b 2 c 3
 - d 4 dtype: object
- c) b 2 c 3 d 4 dtype: int64
- 28. Series is
 - a) A one dimensional structure
 - c) A three dimensional structure
- 29. Data Frames is
 - a) Two Dimensional
 - c) One Dimensional
- 30. Series is
 - a) Immutable

b) c3

d 4

dtype: int64

- d) b2
 - c 3
 - d 4

dtype: float64

- b) A two dimensional structure
- d) None of the Above
- b) None of the above
- d) Three Dimensional
- b) Mutable

31. Which is correct line to import pandas

- a) import Pandas as pd
- c) import panda as pd
- 32. s = pd.series([1,2,3,4,5],index=['a','b','c','d','e'])print(s[:3] gives ?
 - a) a 1
 - b 2
 - c 3
 - d 4
 - c) a 3
 - b 4
 - c 5
- 33. series = pd.series(55)
 - - 2 52
 - 3 53
 - c) 051
 - 1 52
 - 2 53

b) import pandas as pd

- b) a 1
 - b 2
 - c 3

- print(series) gives?
 - a) 151

 - 4 54
 - 5 55

 - 3 54
 - 4 55

- b) 055
 - 1 55
 - 2 55
 - 3 55
 - 4 55

34. s = pd.series(range(1,15,3),index = [x for x in 'abcde']) print(s) gives ?

- a) a 0
 - b 3
 - c 6
 - d 9
 - e 12
- c) a 1
 - b 4
 - c 7
 - d 10
 - e 13
- 35. series = pd.series({'jan':31,"feb':29,'march':31}) print(series) gives ?
 - a) 031
 - 1 29
 - 2 31
 - c) 0 jan
 - 1 feb
 - 2 march
- 36. Data Frame contains?
 - a) Data of same Types

- b) x 1
 - x 4
 - x 7
 - x 10
 - x 13

b) jan 31 feb 29

march 31

b) Data of Different Types

37. s1 = pd.series([11,12,13,14]) s2 = pd.series([11,12,13,14],index=[1,2,3,4]) print(s1+s2) gives ?

a) Error

- c) 0 11 1 12
 - 2 13
 - 3 14
 - 0 11
 - 1 12
 - 2 13
 - 3 14
- 38. Best way to import the pandas module in your program?
 - a) 3.from pandas import *
 - c) 4.All of the above

- b) 1.import pandas
- d) 2.import pandas as pd

- 39. Which is true for series.
 - a) Size is mutable, Values is mutable
 - c) none

- b) size is immutable, values is mutable
- d) size is mutable, values is immutable.

40.	Series.tail(3) will return how many values.		
	a) 3 values from last	b)	none
	c) 5 values	d)	3 values from front
41.	Series.head() will return how many rows.		
	a) 5	b)	4
	c) 2	d)	3
42.	To extract subset from Series,the following function is used		
	a) row()	b)	all
	c) loc()	d)	column()
43.	we can analyze the data in pandas with :		
	a) Dataframe	b)	none
	c) Series	d)	Both
44.	Series in Pandas is		
	a) 1 Dimensional Array	b)	2 Dimensional array
	c) 3 Dimensional array	d)	none of above

45. Minimum number of argument we require to pass in pandas series?

a) 0

b) 2

c) 3

d) 1

46. Series can be created from

a) All of them

b) Array

c) Scatter value

d) Dictionary

47. Full form of NaN is

a) Not a Number

b) None of these

c) Not a Null

d) Not a Numeric

48. pandas is a:

a) Dataframe

b) Data Structure

c) Library

d) Series

- 49. Write the output for the following: import pandas as pd1 s = pd1.Series(5, index=[0, 1, 2, 3]) print(s)
 - a) 05

c) 15
25
25
45
dtype: int64

- b) 05
 - 15
 - 25
 - 35

dtype: int64

- d) 05
 - 15
 - 25
 - 35

dtype: object

50. write the output:

import pandas as pd1

s = pd1.Series([1,2,3])

t = pd1.Series([1,2,4])

u=s-t

print (u)

- a) 00
 - 10
 - 2 -1

dtype: int64

- c) 00
 - 10
 - 21

dtype: int64

51. write the output:

import pandas as pd

s=pd.Series([1,2,3,4],index=['a','b','c','d'])

print(s.iloc[2:4])

- a) b2
 - c 3
 - d 4

dtype: int64

c) none of the above

- b) 00
 - 10
 - 2 -1

dtype: float64

- d) 01
 - 10
 - 21

dtype: int64

- b) c3
 - d 4

dtype: int64

d) b3

c 4

dtype: int64

52. DataFrame is

a) size mutable, data mutable

b) size immutable, data mutable

53. An empty DataFrame can be created by......

a) passing arguments

b) without passing arguments

54. Which of the functions can be used to delete column/row from a DataFrame?

a) drop()

b) iloc()

c) at()

d) pop()

55. Full form of CSV file is

a) Comma Separated Value

b) Comma Separated Vault

c) Common Separated Value

d) Common System Value

56. Dataframe can contain multiple series

a) True

b) False

57. Which is the correct Pandas syntax to read in a csv file and assign it to a DataFrame df?

a) df = with open('file.csv') as pd.DataFrame

b) df = read_csv('file.csv')

c) df = read('file.csv', type = 'csv')

d) df = pd.read_csv('file.csv')

58.	Which is true for series.	
	a) none	b) Size is mutable, Values is mutable
	c) size is immutable,values is mutable	d) size is mutable, values is immutable.
59.	Series.tail(3) will return how many values.	
	a) 5 values	b) 3 values from last
	c) 3 values from front	d) none
60.	Series.head() will return how many rows.	
	a) 2	b) 5
	c) 4	d) 3
61.	To extract subset from Series,the following function is used	
	a) column()	b) all
	c) row()	d) loc()
62.	we can analyze the data in pandas with :	
	a) Both	b) Dataframe
	c) Series	d) none

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63.	Series	ın	Pand:	ו פב
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- a) 2 Dimensional array
- c) 3 Dimensional array

- b) 1 Dimensional Array
- d) none of above

Minimum number of argument we require to pass in pandas series?

- a) 1
- c) 0

- b) 2
- d) 3

Which is not a feature of series

- a) Homogeneous data
- c) Immutable size

- b) Mutable data
- d) Multiple rows

Series can be created from

- a) Dictionary
- c) All of them

- b) Array
- d) Scatter value

Which package should be needed for series

- a) Pandas
- c) Statistic

- b) Random
- d) Maths

68. Full form of NaN is

a) None of these

- c) Not a Numeric
- 69. Write the output for the following: import pandas as pd1 s = pd1.Series(5, index=[0, 1, 2, 3]) print(s)
 - a) 15
 - 25
 - 25
 - 45
 - dtype: int64
 - c) 05

- b) Not a Number
- d) Not a Null

- b) 05
 - 15
 - 25
 - 35
 - dtype: int64
- d) 05
 - 15
 - 25
 - 35
 - dtype: object

70. write the output:

import pandas as pd1

s = pd1.Series([1,2,3])

t = pd1.Series([1,2,4])

u=s-t

print (u)

- a) 00
 - 10
 - 2 1

dtype: int64

- c) 01
 - 10
 - 21

dtype: int64

71. write the output:

import pandas as pd

s=pd.Series([1,2,3,4],index=['a','b','c','d'])

print(s.iloc[2:4])

- a) none of the above
- c) c3

d 4

dtype: int64

- b) 00
 - 10
 - 2 -1

dtype: int64

- d) 00
 - 10
 - 2 -1

dtype: float64

- b) b3
 - c 4

dtype: int64

- d) b2
 - c 3
 - d 4

dtype: int64

72. write the output:

import pandas as pd
s=pd.Series([1,2,3,4],index=['a','b','c','d'])
print(s.loc['b':'d'])

- a) b2
 - c 3
 - d 4

dtype: object

- c) c3
 - d 4

dtype: int64

- b) b2
 - c 3
 - d 4

dtype: float64

- d) b2
 - c 3
 - d 4

dtype: int64

73. Pandas is_____.

- a) a Python 2D plotting library which produces publication-quality figures in a variety of hardcopy formats and interactive environments across platforms.
- c) a Python library that is built on NumPy and provides easy-to-use data structures and data analysis tools for the Python programming language.
- b) a Python library that implements a range of machine learning, preprocessing, cross-validation and visualization algorithms using a unified interface.

74. Give the output of the following code:

>>>import pandas as pd

>>>dict1 = {'AR' : 100, 'VR' : 200, 'AI' : 300}

>>>ser = pd.Series(dict1)

>>>print(ser[1])

- a) 200
- c) AR

b) 100

d) VR

Consider the following code for creating a series:

import pandas as pd dict1 = {'AR' : 100, 'VR' : 200, 'AI' : 300, 'DS':400, 'NLP':500} ser = pd.Series(dict1)

What will be the print statement to get the following output:

AI 300 NLP 500 dtype: int64

75.

a) print(ser[[2,4]])

c) print(ser[2,4])

- b) print(ser[[2:4]])
- d) print(ser[2,3,4])

- 76. Which of the following commands is used to install Pandas?
 - a) python install python
 - c) python install pandas

- b) pip install pandas
- d) pip install python-pandas

Consider the following code for creating a series: import pandas as pd dict1 = {'AR': 100, 'VR': 200, 'AI': 300, 'DS':400, 'NLP':500} ser = pd.Series(dict1) What will be the print statement to get the following output: AI 300 dtype: int64 **77.** (1 Point) b) print(ser[[1,3]]) a) print(ser[1:3]) c) print(ser[1,3]) d) print(ser[[1:3]]) 78. Have you enjoyed the guiz on Pandas Series? b) Yes a) No Missing data in panda series and dataframe can be filled with a _____ value. Ans. Basic feature of series are a) immutable size, immutable data b) Homogeneous data 🛘 Size Immutable 🖨 Values of Data Mutable c) Hetrogenous data 🛘 Size Immutable 🖨 Values of Data Mutable 81. DataFrame is _____ a) like a two dimensional array with heterogeneous data b) module c) photo frame with data

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82	Which function	from the or	ntions given	halow can r	had thad	latacet from a	large text file
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a) read_csv

b) read_pickle

c) read_json

d) read_hdf

83. Which among the following options can be used to create a DataFrame in Pandas?

a) All of the above

b) A python dict

c) An ndarray

d) A scalar value

What does this line of code do?

a) Selects cols with NaN

b) Selects cols without NaN

c) Selects cols with any vals >1

d) Selects cols with vals > 1

What does this line of code do?

a) Replaces values with others

b) Drops NaN values

c) Fills NaN values with a predetermined value



86.

____ is a two-dimensional labelled data structure with columns of potentially different types, while____ is a one-dimensional labelled array capable of holding any data type

a) Series, DataFrame

b) DataFrame, Series

87. ____iterates over the DataFrame columns, returning a tuple with the column name and the content as a Series.

____returns a tuple with row index and row data as a Series object.

a) df.iterrows(), df.items()

b) df.iteritems(), df.iterrows()

88 >>> df2.duplicated('Type')

What does this line of code do?

a) Checks index duplicates

b) Checks duplicates

c) Drops duplicates

d) Returns unique values

- 89. Write the output for the following: import pandas as pd1 s = pd1.Series(5, index=[0, 1, 2, 3]) print(s)
 - a) 0 51 52 53 5dtype: int64
 - c) 05

- b) 15
 - 25
 - 25
 - 45

dtype: int64

- d) 05
 - 15
 - 25
 - 35

dtype: object

90. write the output:

import pandas as pd1

s = pd1.Series([1,2,3])

t = pd1.Series([1,2,4])

u=s-t

print (u)

- a) 00
 - 10
 - 2 -1

dtype: int64

- c) 00
 - 10
 - 2 -1

dtype: float64

91. write the output:

import pandas as pd

s=pd.Series([1,2,3,4],index=['a','b','c','d'])

print(s.iloc[2:4])

- a) b3
 - c 4

dtype: int64

c) c3

d 4

dtype: int64

- b) 01
 - 10
 - 2 1

dtype: int64

- d) 00
 - 10
 - 2 1

dtype: int64

- b) b2
 - c 3
 - d 4

dtype: int64

d) none of the above

92. write the output:

import pandas as pd

s=pd.Series([1,2,3,4],index=['a','b','c','d'])

print(s.loc['b':'d'])

a) b2

с3

d 4

dtype: float64

c) c3

d 4

dtype: int64

b) b2

с3

d 4

dtype: int64

d) b2

с 3

d 4

dtype: object

93. To extract subset from Series, the following function is used

a) row()

c) column()

- b) all
- d) loc()

df['List3']=df['List1']+df['List2']

a) sytax not correct

c) Syntax is correct

b) Can not use arithmatic operators

95. print(df.tail()) will give output

a) first five rows

c) last five rows

- b) only last 01 row
- d) Error in syntax

96. print(df.iloc[5]) will give output

- a) Error in syntax
- c) 0-4 rows
- 97. Predict the output:
 obj2=pd.Series([3.5,5.,6.5,8.])
 print(obj2.size,obj2.hasnans)
 - a) 3 True
 - c) 4 True
- 98. What will be the output of following code?

stu={'A':44,'B':44,'C':45,"D":47} s8=pd.Series(stu) print(s8[:2]*100)

- a) A 4300 B 3000 dtype: int64
- c) A 3300 B 4000 dtype: int64
- 99. A Dataframe contains Heterogeneous data
 - a) true

- b) only 5th row
- d) first five rows

- b) 4 False
- d) 4 F

b) **A 4300 B 4000**

dtype: int64

d) **A 4400**

B 4000

dtype: int64

b) false

100.	A Dataframe Data is Immutable
100.	A Dataframe Data is Immutable

a) false

b) true

101. A Dataframe Size is Mutable

a) true

b) false

102. A Dataframe has axes column index (axis=0) row index (axes=1)

a) true

b) false

103. A data frame can be created using:

a) Series

b) Lists

c) Dictionary

d) A numpy 2D array

104. df['Tid'] & df.Tid are same

a) false

b) true

105. Full form of NaN is

a) None of these

b) Not a Number

c) Not a Null

d) Not a Numeric

106. Which of the following commands is used to convert array named "grades" into data frame named "df_grades"?

a) df_grades = pd.DataFrame("grades")

b) df_grades = pd.DataFrame(grades)

c) df_grades = grades

- d) grades = pd.DataFrame(df_grades)
- 107. Type the syntax that returns the top 5 rows in DataFrame df with the native Pandas function (not slicing):

Ans.

- 108. Which of the functions can be used to delete column/row from a DataFrame?
 - a) iloc()

b) pop()

- c) at()
- 109. Which of the following statement/s will give 3 rows from bottom of the dataframe?
 - a) print(df.tail(3))

b) print(df.tail[3])

- c) Print(df.tail())
- 110. i) Which of the following statement will delete rank2 row from the dataframe?
 - a) df.del("rank2")

b) delete df(rank2)

c) df.drop(rank2)

d) df.drop('rank2')

111. The instructor wants to add a new column, Marks to the dataframe. The values of the marks will be 12, 22, 21, 24. Help him to choose the correct command to do so.

a) a) Df.columns=[12, 22, 21, 24]

b) c) df.loc[marks] = [12, 22, 21, 24]

c) b) df['marks'] = [12, 22, 21, 24]

d) d) Both (b) and (c) are correct

112. Is boolean Indexing possible in Data Frame

a) true

b) false

113. The axis=1 identifies a DataFrame's _____

a) Rows

b) Data Types

c) Columns

d) Values

114. _____ attribute is used to specify column labels

a) columns()

b) columns

c) column ()

d) column

115. To get number of elements in a DataFrame _____ attribute may be used.

a) size

b) shape

c) ndim

d) values

116. To extract a row / column from a DataFrame ___ function may be used

a) All of the above

b) row()

c) column()

d) loc()

117. The insert function requires ____ number of arguments in DataFrame.

a) 2

b) 4

c) 1

d) 3

For the given DataFrame df, what will be the code to get the value 38?

a) None of the above

b) df.iloc[1,1]

c) df.loc[111]

d) df. Age [222]

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Answer Keys		
1. b) Multiple rows	2. c) All of above	3. d) Pandas
4. a) Not a Number	5. b) All of these	6. d) Comma Separated Value
7. d) multi()	8. c) to_csv()	9. b) True
10. c) size is immutable,values is mutable	11. d) 3 values from last	12. a) 5
13. c) loc()	14. a) Both	15. b) 1 Dimensional Array
16. a) 1	17. a) pandas	18. a) Multiple rows
19. c) All of them	20. b) Pandas	21. a) Not a Number
22. c) value, size	23. c) Library	24. c) 0 5 1 5 2 5 3 5 dtype: int64
25. a) 0 0 1 0 2 -1 dtype: int64	26. b) c 3 d 4 dtype: int64	27. c) b 2 c 3 d 4 dtype: int64
28. a) A one dimensional structure	29. a) Two Dimensional	30. b) Mutable
31. b) import pandas as pd	32. b) a 1 b 2 c 3	33. b) 0 55 1 55 2 55 3 55 4 55
34. c) a 1 b 4 c 7 d 10 e 13	35. b) jan 31 feb 29 march 31	36. a) Data of same Types
37. a) Error	38. c) 4.All of the above	39. b) size is immutable, values is mutable
40. a) 3 values from last	41. a) 5	42. c) loc()
43. d) Both	44. a) 1 Dimensional Array	45. d) 1
46. a) All of them	47. a) Not a Number	48. c) Library

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49. b) 0 5 1 5 2 5 3 5 dtype: int64	50. a) 0 0 1 0 2 -1 dtype: int64	51. b) c 3 d 4 dtype: int64
52. a) size mutable, data mutable	53. b) without passing arguments	54. d) pop() , a) drop()
55. a) Comma Separated Value	56. a) True	57. d) df = pd.read_csv('file.csv')
58. c) size is immutable,values is mutable	59. b) 3 values from last	60. b) 5
61. d) loc()	62. a) Both	63. b) 1 Dimensional Array
64. c) 0	65. d) Multiple rows	66. c) All of them
67. a) Pandas	68. b) Not a Number	69. b) 0 5 1 5 2 5 3 5 dtype: int64
70. b) 0 0 1 0 2 -1 dtype: int64	71. c) c 3 d 4 dtype: int64	72. d) b 2 c 3 d 4 dtype: int64
73. c) a Python library that is built on NumPy and provides easy-to-use data structures and data analysis tools for the Python programming language.	74. a) 200	75. a) print(ser[[2,4]])
76. b) pip install pandas	77. a) print(ser[1:3])	78. n/a
79. NAN, not a number	80. b) Homogeneous data 🛘 Size Immutable 🗈 Values of Data Mutable	81. a) like a two dimensional array with heterogeneous data
82. a) read_csv	83. a) All of the above	84. a) Selects cols with NaN
85. c) Fills NaN values with a predetermined value	86. b) DataFrame, Series	87. b) df.iteritems(), df.iterrows()
88. b) Checks duplicates	89. a) 0 5 1 5 2 5 3 5 dtype: int64	90. a) 0 0 1 0 2 -1 dtype: int64

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.,		Lawrence Lawrence	
	91. c) c 3 d 4 dtype: int64	92. b) b 2 c 3 d 4 dtype: int64	93. d) loc()
	94. c) Syntax is correct	95. c) last five rows	96. b) only 5th row
	97. b) 4 False	98. b) A 4300 B 4000 dtype: int64	99. a) true
	100. a) false	101. a) true	102. b) false
	103. b) Lists, c) Dictionary, a) Series, d) A numpy 2D array	104. b) true	105. b) Not a Number
	106. b) df_grades = pd.DataFrame(grades)	107. df.head(), df.head(5)	108. b) pop()
	109. a) print(df.tail(3))	110. d) df.drop('rank2')	111. c) b) df['marks'] = [12, 22, 21, 24]
	112. a) true	113. c) Columns	114. b) columns
	115. a) size	116. d) loc()	117. d) 3
	118. d) df . Age [222] , b) df . iloc [1,1]		