✓ 1. Consider the table below. Which of the above variable(s) are classified as ordinal variable(s)? (Multiple Correct) 2/2

ID	Age	Gender	Height	Blood group	LDL †	Feeling happy?	Number of children	Smoke?	Social class
1	25	M	1.52	O	154	Strongly agree	0	No	II
2	35	F	1.66	B	132	Disagree	1	Yes	III
3	44	M	1.44	B	151	Agree	3	Yes	II
4	28	M	1.22	AB	198	Indifferent	0	No	I
5	35	F	1.43	A	231	Indifferent	2	Yes	II
6	42	M	156	O	222	Agree	2	Yes	I
7	36	F	1.81	B	103	Strongly disagree	1	No	IV
8	38	M	1.54	AB	125	Strongly agree	1	Yes	III
9	30	M	1.47	A	280	Indifferent	0	No	V
10	40	F	1.18	B	187	Strongly disagree	6	No	III
:	:	:	:	:	:	:			

- [x] Social class ✓
- [ ] Smoke ?
- [ ] Blood Group
- [ ] LDL
- [ ] ID
- [x] Feeling Happy ? ✓
- [ ] Age
- [ ] Gender
- [ ] Height
- [ ] Number of children

✓ 2. What will be output for the following code? 1/1

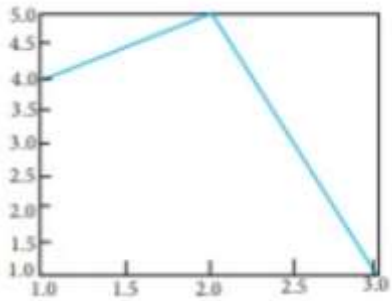
```
import pandas as pd
import numpy as np

s = pd.Series(np.random.randn(4))
print (s.ndim)
```

- ○ 3
- ○ 2
- ◉ 1 ✓
- ○ 0

✓ 3. If you have a 2-D NumPy array named x, which of the following will compute the sum across all the columns, resulting in one total per row? 1/1

- x.sum()
- x.sum(axis = 0)
- (●) x.sum(axis = 1) ✓
- x.iloc[].sum()

✓ 4. Observe the output figure. Identify the code for obtaining this output. (Assume matplotlib is imported as plt) 1/1



- plt.plot([2,3],[5,1])
- (●) plt.plot([1,2,3],[4,5,1]) ✓
- plt.plot([1,3],[4,1])
- plt.plot([1,2],[4,5])

✗ 5. Suppose we make a dataframe as df = pd.DataFrame(['ff', 'gg', 'hh', 'yy'], [24, 12, 48, 30], columns = ['Name', 'Age']). What is the difference between the two data series 1 - df['Name'] and 2- df.loc[:, 'Name'] (Note: Pandas has been imported as pd) 0/1

- ○ 1 is a view of the original dataframe and 2 is a copy of the original dataframe.
- ◉ Both are copies of the original dataframe ✗
- ○ Both are views of original dataframe
- ○ 2 is a view of the original dataframe and 1 is a copy of the original dataframe

Correct answer

- ◉ 2 is a view of the original dataframe and 1 is a copy of the original dataframe

✓ 6. What is the output of the following command? 1/1

```
pd.date_range("2021-01-01", periods=3, freq="H")
```

- ◉ DatetimeIndex(['2021-01-01 00:00:00', '2021-01-01 01:00:00', '2021-01-01 02:00:00'],dtype='datetime64[ns]', freq='H') ✓
- ○ DatetimeIndex(['2021-01-01 01:00:00', '2021-01-01 01:00:00', '2021-01-01 01:00:00'],dtype='datetime64[ns]', freq='H')
- ○ DatetimeIndex(['2021-01-01 00:00:00', '2021-01-01 00:01:00', '2021-01-01 00:02:00'],dtype='datetime64[ns]', freq='H')
- ○ DatetimeIndex(['2021-01-01 00:00:00', '2021-01-01 00:00:00', '2021-01-01 00:00:00'],dtype='datetime64[ns]', freq='H')

✓ 7. What is the output of the following code: 1/1

```
import numpy as np
array_1 = np.array([1, 2])
array_2 = np.array([4, 6])
array_3 = np.array(np.meshgrid(array_1, array_2)).T.reshape(-1, 2)
print(array_3)
```

- [[1 2][4 6]]
- [[1 4][1 6][2 4][2 6]] ✓
- [[1 4][2 6]]
- [[1 1][1 2][1 4][1 6][2 1][2 2][2 4][2 6][4 1][4 2][4 4][4 6][6 1][6 2][6 4][6 6]]

Questions related to the Assignment 12 of 22 points

✓ 8. How many pokemons have 'Mega' in their name? 2/2

- 46
- 47
- 48
- 49 ✓

✓ 9. What is the standard deviation of Sp. Def. in the dataset ? (round off upto 3 decimal places) 1/1

- (●) 27.829 ✓
- ( ) 27.828
- ( ) 27.831
- ( ) 27.830

✓ 10. What percentage (upto 3 decimal places) of pokemons are legendary ? 1/1

- ( ) 8.175
- ( ) 8.150
- (●) 8.125 ✓
- ( ) 8.100

✓ 11. Which pokemon(s) has/have Maximum Defense. (Multiple Correct) 3/3

- [x] SteelixMega Steelix ✓
- [x] AggronMega Aggron ✓
- [ ] Avalugg

- [ ] Regirock
- [x] Shuckle ✓

✗ 12. Which 'poison' pokemon has the strongest attack ? 0/3

- ○ Muk
- ○ BeedrilMega Beedril
- ◉ Toxicroak ✗
- ○ Victreebel

Correct answer

- ◉ BeedrilMega Beedril

✓ 13. Which of the following statement(s) is(are) TRUE ? (Multiple Correct) 5/5

- [x] Generation 4 has more no. of Pokemons than generation 6 but less than that of generation 1 ✓
- [x] Generation 3 has most no. of legendary pokemons. ✓
- [ ] 'Fairy' is less common Type-2 than 'Steele' and 'Psychic'
- [ ] Flying is least common Type-1 followed by Ice.
- [x] There are total 6 pokemons with type-1 as 'Psychic' and type 2 as 'Flying' ✓