Name/ID:

Questions: True (A) of False (B)

Q1: Length, weight, and density are all examples of numerical type and ratio measurement scales.

Q2: Examples of measurement levels are categorical and numerical.

Q3: Variables arising from a counting process are called continuous.

Q4: Categorical data, where ordering is not important, are nominal.

Q5: The Second Quartile is always equal to the Median.

Q6: The most common measure of central tendency that is sensitive to extreme values is the Mean.

Q7: When a sample data has a normal distribution, then the measures of central tendency are all equal.

Q8: Measures of variation include Variance, Range, and Standard Deviation.

Q9: Before model evaluation, a data analyst should ensure the data set is balanced.

Q10: Data dredging is an essential step in the EDA phase.

Q11: Data science methodology follows the statistical inference approach.

Q12: When a sample has a Median much smaller than its Mean, then the distribution is Right-Skewed.

Q13: The following Box Plot is Left-Skewed.



Q14: A model has an accuracy of 98%. This accuracy can be misleading when the data is imbalanced.

Q15: A learning model that has No Output(Target) is called a Supervised Model.

Q16: Which of the Python Libraries is powerful for manipulating data frames?												
a)	Numpy	b) Seaborn	c) Pandas	d) DataFrame								
Q17: The default index in Python starts from												
a)	0	b) 1	c) label	d) head								
Q18: Which of the following is False about Pandas Series? A Pandas Series is/has												
a)	Multi-dimensio	onal b) Hom	nogeneous Data	c) Integer/Label ir	ndexing	d) Elementwise operations						
Q19: To read a csv Data file in Python, we use												
a)	a) pd.read_csv('Data') b) pd.read_csv('Data.csv') c) pd.read('Data', csv)											
Q20: To obtain a random selection of 10 rows of a data frame (Df), we write												
a)	Df.head(10)	b) Df.s	ample(10)	c) Df.rows(10)		d) Df.index(10)						
Q21: For a data frame (Df), the data shape, number of NaN, names of columns, and types of each column can be viewed using												
a)	Df.describe()	b) Df.ł	nead()	c)Df.tail()		d) Df.info()						
Q22: To view only the columns: 'ID', 'Name', 'Grade', from a data frame (Df), we write												
a) Df[['ID', 'Name', 'Grade']] b) df(('ID', 'Name', 'Grade')) c) Df.columns('ID', 'Name', 'Grade')												
Q23: To view the first 10 rows for the ID and Grade columns, we write												

a) Df.loc[:10, 'ID', 'Grade'] b) Df.loc[:9, ['ID', 'Grade']] c) Df.iloc[:10, 'ID', 'Grade']

Q24: To filter the rows from a data frame (Df) based on the conition: Age >20, we write

a) Df['Age'>20] b) Df[Df['Age']>20] c) Df['Age']>20

Q25: Which of the following the commands: Group by Department and aggregate Salary using mean?

- a) Df.groupby('Department')['Salary'].mean()
- b) Df.groupby('Department','Salary', mean)
- c) Df.groupby['Department', 'Salary'].mean()
- d) Df.groupby('Department')('Salary').mean()

Use the given contingency table to answer the following questions:

Q26: The number of the data rows is												
а) 335	b) 65	c) 400	d) 800		No	Errors	Total				
Q27:	The number of	records that co		Errors								
а) 65	b) 70	c) 140	d) 335								
					Small	170	20	190				
Q28:	Of invoices wit	h errors, the pi	Amount									
а) 30.77	b) 5.00	c) 10.53	d) 170	Medium	100	40	140				
Q29: The proportion of invoices with no errors is												
a) 16.25	b) 50.75	c) 83.75	d) 335	Large	65	5	70				
					Amount							
Q30:	Of Medium Am	ount invoices,	Total	335	65	400						
а) 71.43	b) 61.54	c) 10.00	d) 28.57								