1. Which of the	e following is an inv	valid variable	?					
a) my_string_	_1 b) 1st_strii	ng c) fo	o d	1)_				
2. Which of the	ese in not a core da	ta type?						
a) Lists	b) Dictiona	ary c) Tu	ıples	d) Class				
3.What data ty	pe is the object belo	ow?						
L = [1, 23]	s, "hello", 1].							
a) list	b) dictionary	c) array	d) tuj	ple				
4.In order to sto	ore values in terms (	of key and va	llue we u	se what core data	type.			
a) list	b) tuple	c) cla	ass d	l) dictionary				
5. Which is the	5. Which is the correct operator for $power(x^y)$ ?							
a) <b>X^y</b>	b) X**y c) X	(^^y d) No	one of the	e mentioned				
6.Which one of	these is floor divisi	on?						
a) /	b) //	c) %	d) ^					
7.Mathematica	l operations can be	performed o	n a strin	g. State whether t	rue or false.			
a) True	b) False							
8.The expressi	on int(x) implies	that the vai	riable x	is converted to	integer. State			
whether true	or false.							
a) True	b) False							
9.Input function	n in python							
a) input()	b) read()	c) enter()	d) scan	f()				
10.What arithm	10. What arithmetic operators cannot be used with string?							
a) +	b) *	c) –	d) a and	d b				

11. Suppose list1	is [2, 33, 22	2, 14, 25	5], Wł	nat is list1[	-1] ?			
a) Error	b) None	c) 25		d) 2				
12.Suppose list1	is [1, 3, 2], V	Vhat is l	list1 *	2?				
a) [2, 6, 4]	b) [1, 3, 2,	1, 3]	c) [1,	3, 2, 1, 3, 2	,]	D) [1, 3, 2, 3	3, 2, 1]	
13.Tuple can be	modified.							
a) True	b) False							
14.List can not b	e modified.							
a) True	b) False							
15. Which of the	following is	a Pytho	n tupl	e?				
a) [1, 2, 3]	b) (1, 2, 3)		c) {1,	2, 3}	d) {}			
<b>16.Suppose t</b> = (1	1, 2, 4, 3), wh	nich of t	he fol	lowing is in	correc	t?		
a) print(t[3	])b) print(ler	$\mathbf{n}(\mathbf{t})$	c) pri	nt(max(t))	d) t[3	B] = 45		
17. Which of the	following sta	atement	s crea	te a dictior	ary?			
a) $d = \{ \}$			b) d =	= {"john":40	), "pete	r":45}		
c) $d = \{40:"jol$	hn", 45:"pete	er"}	d) All	of the men	tioned			
18.Read the code	e shown belo	w caref	fully a	nd pick ou	t the ke	eys?		
$\mathbf{d} = \{$	d = {''john'':40, ''peter'':45}							
a) "john", 4	40, 45, and " <sub>]</sub>	peter" ł	b) "joh	nn" and "pe	ter"			
c) 40 and 45		d) d =	= (40:"j	john", 45:" <u>J</u>	peter")			
19.Identity opera	ator in pytho	on is						
a) in	b) is	c) is n	ot	d) both b &	кc			

	a) in	b) is	c) not in	d) a and c				
21.Pro	per indenta	ation is requ	ired in pytho	on.				
	a) True	b) False						
22.Fu	nctions are	declared usi	ng the follow	ving keyword:				
	a) def	b) define		c) declare	d) start			
23.Wh	23. Which statement brings the program control to the beginning of the loop.							
	a) main	b) continue		c) begin	d) first			
24.A function cannot return a value.								
	a) True	b) False						
25.Ke	yword argu	ment can be	used within	a function calling				
	a) True	b) False						
26.An	onymous fu	nction objec	ets in Python	:				
	a) lambda	b) try	c) loop	d) inline				
27. Ap	plies the gi	ven function	to each item	n of a given iterab	le (list, tuple etc.)			
	a) lambda	b) reduce	c) map	d) inline				
28.A class constructor								
a) Same as class name b)_ c) different name d) All init_								
29. The first parameter of any function in the class is:								
;	a) class refer	ence b) fur	nction name	c) datatype	d) None			

20.Membership operator is:

<b>30.</b> A	A special typ	pe of method (fund	ction) which	is used to initialize the members of the
(	class.			
a)	function	b) constructor	c) map	d) member
31.Py	thon suppor	rts method overloa	ding	
	a) True	b) False		
32. A	n abnormal	condition in a pro	ogram resul	ting in the disruption in the flow of the
pr	ogram.			
	a) error	b) exception	c) condition	d) logical error
33.Th	ne try block	must be followed b	y the excep	t statement.
	a) True	b) False		
34.Th	ne try block	may have more th	an one exce	pt statement.
	a) True	b) False		
35.Ar	n exception o	can be raised by us	sing	
	a) throw	b) generate	c) create	d) raise
36.A	python mod	ule is		
	a) folder	b) python progran	n file	c) python function d) None
37.Th	ne extension	of python prograr	n file	
	a) .txt	b) .py	c) .jpynb	d) .python
38.A	one-dimensi	ional labeled array	capable of	holding data of any type
	a) Series	b) Data frame	c) array	d) element
39.A	Data frame	is a two-dimension	nal data stru	ecture
	a) True	h) False		

40.A data frame i	s created using dic	ctionary, list, or	any other data	structure.
a) True	b) False			
41. Function used	to add a new row	at the end of th	e data frame	
a) append()	b) insert()	c) new()	d) creat	te()
42.To access a gro	up of rows and col	lumns by label(	s).	
a) view()	b) search()	c) loc()	d) location()	
43.Function for a	rithmetic median o	of values		
a) middle()	b) mead()	c) median()	d) avg()	
44.To access grou	p of rows and colu	ımns by integer	locations	
a) view()	b) iloc()	c) loc()	d) location()	
45. Which function column?	on computes a su	mmary of stat	istics pertaining	g to the DataFrame
a) info()	b) stat()	c) describe()	d) summery(	)
46. Which machi	ne learning algo	orithm solves	both classificat	ion and regression
a) Decision	Tree b) Naïve Ba	ayes c)	K-means	d) All
47. Regression alg	orithms fall under	the		
a) Supervised M/I	b) Unsuperv	vised M/L c)	Semi-supervised	M/L d) None
48.Algorithm used	d to estimate real v	values based on	continuous vari	able
a) median	b) mode	c)	kNN	d) Linear Regression

49.Machine learning li	ibrary for the Python pr	ogramming langu	age
a) pandas	b) numpy	c) sklearn	d) matplotlib
50.Algorithm which so	olves the clustering prob	lem	
a) Naïve Bayes	b) Linear Regression	c) K-Means	d) Decision Tree
51. Which of the follow	ing object you get after	reading CSV file?	
a) DataFrame	b) Character Vector	c) Panel	d) All
52. Which of the follow	ving is used for machine	learning in pythor	ı?
a) scikit-learn	b) seaborn-learn	c) stats-learn	d) none
53. The propletting of data.	oject builds on top of	pandas and matp	olotlib to provide easy
a) yhat	b) Seaborn	c) Vincent	d) None
54. Data that summari	ze all observations in a c	category are called	data.
a) frequency	b) summarized	c) raw	d) All
55. Which of the follow	ving is characteristic of I	Raw Data?	
a) Data is ready for	analysis	b) Origin	nal version of data
c) Easy to use for da	ata analysis	d) All	
56. Which of the follow	ing thing can be data in	Pandas?	
a) A python dict	b) an ndarray	c) a scalar	value d) all
57. Series is a one-dime	ensional labeled array ca	apable of holding a	nny data type.
a) True	b) False		
58. All pandas data str	uctures are mutable	but not always	mutable.
a) size, value	b) semantic, size	c) value, size	d) none

a) Module	b) Class	c) Another functi	on	d) Method			
60. Size of the pa	ndas dataframe is	s mutable.					
a) True	b) False						
61. A pandas DataFrame can be created							
a) pandas.Datal	Frame b) pandas.	.dataFrame c) p	andas.datafran	ne d) dataframe			
62. To change the	e name of the colu	mn in a datafram	e, use:				
a) change()	b) ren()	c) rename(	d) No	ne			
63. To insert colu	mn into DataFrai	me at specified loc	ation, use:				
a) enter()	b) insert()	c) update()	d) None				
64. Rows can be s	selected by passing	g integer location	to loc() function	on			
a) True	b) Fa	alse					
65. An open-sou and analysis tool	•		h-performan	ce data manipulation			
a) Numpy	b)Pandas	c) Matlab	d) Dataframe	e			
66. Pandas is wel	ll suited for:						
a) Tabular data with heterogeneously-typed columns, as in an SQL table or Excel spreadsheet							
b) Ordered and unordered time series data							
c) Arbitrary column la		ogeneously typed or	heterogeneou	s) with row and			
d) All							

59. What is called when a function is defined inside a class?

67. The most widely us	67. The most widely used metrics and tools to assess a classification model is:							
a) Confusion mat	rix	b) Error		c) Mean Squ	ared Err	or	d) None	
68. Which of the follow	ing is	a disadvant	tage of o	decision tree	s?			
a) Factor analysis				b) Decision	trees are	robust to o	outliers	
c) Decision trees a	rfit	<b>d</b> ) None of t	he above	;				
69. How do you handle missing or corrupted data in a dataset?								
a) Drop missing rows or columns b)Replace missing values with mean/median/mode								
b) Assign a unique category	b) Assign a unique category to missing values d) All of the above							
70. What is the purpose	e of pe	rforming c	ross-val	idation?				
a. To assess the pred	ictive p	performance	of the i	nodels				
b. To judge how the	trained	model perf	orms ou	tside the sam	ple on te	st data		
c. Both A and B								
d. None								
71. Which method used	l to rea	ad comma s	separato	ed value file	in panda	ıs?		
<pre>a) read_excel()</pre>	b) re	ead_csv()	C	c) csv_read()	d)	none		
72. The most widely used metrics and tools to assess a regression model is:								
a) Confusion matrix b) Mean Squared Error c) error d) all								
73. Handles non NaN	values	in a DataF	rame:					
a) values	b) na	a_values	C	e) values_na	d)	na na		
74. To check missing values in a data frame:								
a) null()	b) is	null()		c) missing(	) d	l) values()		

75. To drop Rows/Columns with Null values:								
a) dropna()	b) remove()	c) drop()	d) fill_na()					
76. To fill missing value	s with specific criterion,	use						
a) fillna()	b) fill()	c) fill_na	d)none					
77. To count frequency of each category								
a) value_counts()	b) value_count()	c) value()	d) counts()					
78. To get a concise summary of the dataframe, use								
a) info()	b) detail()	c) information()	d) none					
79. To print the data types of every columns, use								
a) type	b) dtypes	c) datatypes	d) all					
80. To change the data	types of a dataframe, use	2						
a) atype	b) astype	c) sametype	d) type					
81. A function in Sklea and for testing data	rn for splitting data ar	rays into two subs	sets: for training data					
a) split()	b) train_test_split()	c) train_split()	d) test_split()					
82 means to do	some calculation and the	en do transformati	ion.					
a) fit_transform	b) fit	c) transform	d) trans_fit					
83. The function is used to convert categorical variable into dummy/indicator variables.								
a) get_dummies()	b) dummy()	c) get_dummy()	d) none					
84. Which method pred	ict the label of a new set	of data						
a) predict()	b) output()	c) fit()	d) score()					

the	labels y			
	a) model. fit()	b) model.predict()	c) model.learn()	d) medel.score()
86.	calculate	s the score of classificati	on or regression pi	oblem.
	a) model.score()	b) model.fit()	c) model.learn()	d) none
87.	<b>Decision tree splits</b>	into 2 parts at each nod	e	
	a) True	b) False		
88.	Class imbalance car	n be measured by compu	ıting Gini.	
	a) True	b) False		
89.	A confusion matrix	is a summary of predic	tion results on a cla	assification problem.
	a) True	b) False		
90.	Library for data vis	sualization		
	a) plot	b) matplotlib	c) matplot	d)none

85. For supervised learning applications, this accepts two arguments: the data X and