

Consider the following distance matrix. Assuming that C and D are initial centroids for K-means algorithm, what would be the clusters resulted after the first epoch?

	A	B	C	D	E	F	G
A	0						
B	45	0					
C	13	6	0				
D	21	21	9	0			
E	32	6	40	1	0		
F	15	16	9	28	11	0	
G	19	25	32	9	5	10	0

Select one:

- ☐ a. A, D, C and B, E, F, G
- ☐ b. B, C, G and A, D, E, F
- ☐ c. A, B, C, E and D, F, G
- ☐ d. B, C, F, G and A, D, E
- ☒ e. A, B, C, F and D, E, G



# Online Exams

Sri Lanka Institute of Information Technology

Question 9

Not yet answered

Marked out of 1.0

Flag question

Which of the following can contain in the output obtained by executing K-means algorithm?

Select one or more:

- ☒ a. Centroids
- ☐ b. Predicated category label
- ☐ c. Groups of observations
- ☐ d. a trend line
- ☐ e. Predicted numerical value

Next page

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Finish a

Time left



Which of the following are correct?

Select one or more:

- ☐ a. Gini index is not suitable for the measurement of purity.
- ☒ b. In greedy method all attributes are lined up and different split points are tried and tested using a cost function
- ☒ c. In classification a partition is pure if all the tuples in it belong to the same class
- ☒ d. An attribute selection measure is a heuristic for selecting the splitting criterion that "best" separates a given data partition
- ☐ e. Attribute selection measures are also known as splitting rules

Next page

$$1 - \left(\frac{4}{5}\right)^2 = \left(\frac{1}{5}\right)^2$$

$$1 - \left(\frac{4}{5}\right)^2 = \left(\frac{1}{5}\right)^2$$

$(A \ B \ C)$   
 $(A \ B \ C)$   
 $(A \ B \ C)$







2

Answered  
Part of 1.0  
Question

Consider the following distance matrix. What would be the second cluster resulted after applying complete-link agglomerative clustering?

	A	B	C	D
A	0			
B	45	0		
C	13	23	0	
D	20	21	9	0

Select one:

- ☐ a. B, C, D
- ☐ b. B, C, A
- ☒ c. A, C, D
- ☐ d. A, D, B
- ☐ e. None of the above

Which of the following is not an application of clustering?

Select one or more:

- ☐ a. Identifying different user groups in Facebook
- ☐ b. Identifying most suitable airline to travel for a customer with a given profile
- ☐ c. Detecting spam emails
- ☒ d. Predicting price of houses
- ☐ e. Market segmentation



Question 23

Not yet answered  
Marked out of 1.0

Flag question

Consider the following output obtained by using multiple regression technique in python in order to predict the Employed people in a country as a percentage based on the Gross National product (GNP). Assuming alpha is 0.05 what would be the employed people as a percentage in a country with GNP is 258.

coef    std err    t    P>|t|    [95.0% Conf. Int.]

const 51.8436 0.681    76.087 0.000 50.382 53.305

GNP 0.0348 0.002    20.374 0.000 0.031 0.038

Select one:

- ☒ a. 60%
- ☐ b. 76 %
- ☐ c. 51 %
- ☐ d. 80 %
- ☐ e. 0.03 %

Next page

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Finish attempt

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$$1 - \left(\frac{4}{5}\right)^2 = \left(\frac{1}{5}\right)^2$$

$$1 - \left(\frac{4}{5}\right)^2 = \left(\frac{1}{5}\right)^2$$

$(A \ B \ C)$   
 $(A \ B \ C)$   
 $(A \ B \ C)$

2/10 20/10 20/10



The relationship between price and sales of an item is analyzed using simple linear regression with the following data. What would be the value for  $\beta_0$  in the resulted regression equation?

Price (k)	Sales (k)
3	20
6	9
11	0

Select one:

- ☐ a. 9.6
- ☒ b. 25
- ☐ c. 1.06
- ☐ d. 2.5
- ☐ e. -2.4

Next page



# Online Exams

Sri Lanka Institute of Information Technology

Question 8

Not yet answered

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Flag question

Select the most suitable answers to fill the blanks in the correct order

The ..... clustering, follows a ..... approach, which starts with all the objects in the same cluster whereas the ..... clustering, follows a ..... approach which starts with each object forming a separate group

Select one:

- ☐ a.  
divisive, agglomerative, top-down, bottom-up
- ☒ b.  
agglomerative, top-down, divisive, bottom-up
- ☐ c.  
divisive, top-down, agglomerative, bottom-up
- ☐ d.  
top-down, divisive, bottom-up, agglomerative
- ☐ e. None of the above

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tion

Consider the following data set

TID	Items Bought
T001	{Milk, Orange, Bread, Eggs, Youghurt, Butter }
T002	{Noodles, Orange, Bread, Milk, Eggs, Youghurt}
T003	{Milk, Sugar, Bread, Egg}
T004	{Chocolate, Sugar , Tea bags, Butter, Youghurt, Biscuits}
T005	{Biscuits, Orange, Bread, Ice cream, Eggs }

What is the confidence for {Milk} -> Bread?

Select one:

- ☐ a. 0.5
- ☐ b. 0.25
- ☒ c. 1.0
- ☐ d. 0.2
- ☐ e. 0.75

Consider the following data set

TID	Items Bought
T001	{Milk, Orange, Bread, Eggs, Youghurt, Butter }
T002	{Noodles, Orange, Bread, Milk, Eggs, Youghurt}
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- ☐ d. 0.2
- ☐ e. 0.75





Question 13

Not yet answered

Marked out of 1.0

Flag question

Consider the following distance matrix. What would be the second cluster resulted after applying single-link agglomerative clustering?

	A	B	C	D
A	0			
B	9	0		
C	1	0	0	
D	16	4	8	0

Select one:

- ☐ a. B, C, D
- ☒ b. B, C, A
- ☐ c. A, C, D
- ☐ d. A, D, B
- ☐ e. None of the above

Next page

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Question 13

Not yet answered

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Flag question

Consider the following distance matrix. What would be the second cluster resulted after applying single-link agglomerative clustering?

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A	0			
B	9	0		
C	1	0	0	
D	16	4	8	0

Select one:

- ☐ a. B, C, D
- ☒ b. B, C, A
- ☐ c. A, C, D
- ☐ d. A, D, B
- ☐ e. None of the above

Next page

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An emergency room in a hospital measures 17 variables to measure the medical condition of newly admitted patients to decide whether the patient should put in an intensive-care unit. Due to the high cost of ICU, those patients who may survive more a month are given higher priority. However, the problem is to predict high risk patients and discriminate them from low-risk patients.

Select the most suitable analytical method for the above scenario.

Select one:

- ☐ a. association rule mining
- ☐ b. clustering
- ☐ c. linear regression analysis
- ☒ d. classification
- ☐ e. time series analysis

Select the main characteristic of the Supervised learning

Select one:

- ☐ a. computationally complex
- ☐ b. Analysts are not aware about different categories of data
- ☐ c. Algorithms are used against data which is not labelled
- ☒ d. Algorithms are trained using labeled data.
- ☐ e. None of the above



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A credit card company typically receives hundreds of thousands of applications for new cards with several different attributes of applicant details. The company needs to identify the applicants who can be placed into good credit, bad credit or fall into a gray area.

Select the most suitable analytical technique for the above scenario.

Select one:

- ☐ a. K-Means analysis
- ☒ b. decision tree analysis
- ☐ c. linear regression analysis
- ☐ d. Time series analysis
- ☐ e. Apriori algorithm

Next page



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- ☒ b. decision tree analysis
- ☐ c. linear regression analysis
- ☐ d. Time series analysis
- ☐ e. Apriori algorithm

Next page



Which of the following is not true about classification?

Select one or more:

- ☐ a. The only input for the classifier are tuples
- ☐ b. Second step of classification involves testing the classification model and predicting
- ☐ c. Classification have two main steps namely learning and predicting
- ☐ d. Same set of rows are usually used in first and second phase of classification
- ☒ e. The class label for of the data set is a continuous variable





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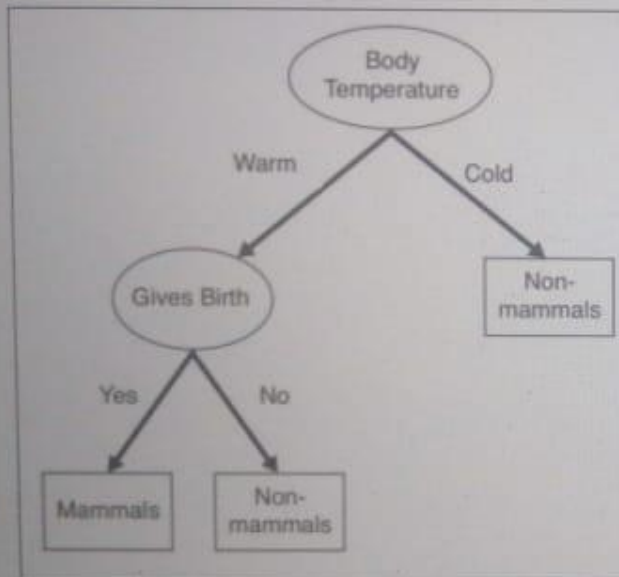
Question 17

Not yet answered

Marked out of 1.0

Flag question

A decision tree has constructed to determine the class of animals according to the body temperature and birth way as shown in following figure.



Select the correct answer which contains the class of the unlabeled data shown in following table for the animals in order: <gibbon, flamingo, lion and cockroach>.

Name	Body Temperature	Gives Birth	Class
gibbon	warm	yes	?
flamingo	warm	no	?
lion	warm	yes	?

Select one:

a. Non - Mammals, Mammals, Mammals, Non-

Quiz navigation

1	2	3	4
9	10	11	12
17	18	19	20
25			

Finish attempt

Time left 0:21:41



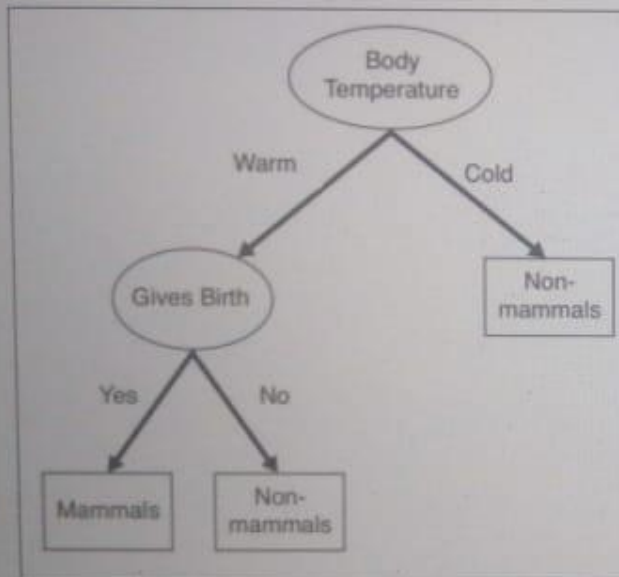
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flamingo	warm	no	?
lion	warm	yes	?

Select one:

a. Non - Mammals, Mammals, Mammals, Non-

Quiz navigation

1	2	3	4
9	10	11	12
17	18	19	20
25			

Finish attempt

Time left 0:21:41



Question 20

Not yet answered

Marked out of 1.0

Flag question

In a regression and correlation analysis if  $R^2 = 1$ , then

Select one:

- ☒ a.  $SSR = SST$
- ☐ b.  $SST = 1$
- ☐ c.  $SSR = SSE$
- ☐ d.  $SSE = 1$
- ☐ e.  $SSE = SST$





Question 20

Not yet answered

Marked out of 1.0

Flag question

In a regression and correlation analysis if  $R^2 = 1$ , then


Select one:

- ☒ a.  $SSR = SST$
- ☐ b.  $SST = 1$
- ☐ c.  $SSR = SSE$
- ☐ d.  $SSE = 1$
- ☐ e.  $SSE = SST$

Which of the following is not a technique for estimation of regression coefficients?

Select one or more:

- ☐ a. Bayesian regression
- ☐ b. Kernal regression
- ☐ c. Ordinary least square
- ☒ d. Minimal likelihood estimation
- ☐ e. Maximum least square

Next page 

Which of the following is not true with relevance to regression?

Select one or more:

- ☐ a. Regression relies on statistical techniques
- ☐ b. Regression could be applied to variables having causal relationships
- ☒ c. Regression could be used to predict categorical variables
- ☐ d. Regression is the process of finding a mathematical equation that best fits the noisy data
- ☐ e. All of the above

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on 10

et answered  
ed out of 1.0  
ing question

Consider the following data set. Assuming that A, B and C are initial centroids for K-means algorithm, what would be the resulted clusters after the first epoch?

	A	B	C	D	E	F	G
A	0						
B	9	0					
C	1	0	0				
D	16	4	8	0			
E	3	12	0	20	0		
F	11	26	13	12	1	0	
G	19	25	23	2	8	10	0

Select one:

- ☐ a. {A, D} {B, E} and {C, F, G}
- ☐ b. {A, E} {B, D, F} {C, G}
- ☐ c. {A, F, G}, {B, D} and {C, E}
- ☒ d. {A, F, G} {B, D} and {C, E}
- ☐ e. {A, D, E} {B, F} {C, G}

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1	2	3
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25		

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Next page



on 10

et answered  
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ing question

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F	11	26	13	12	1	0	
G	19	25	23	2	8	10	0

Select one:

- ☐ a. {A, D} {B, E} and {C, F, G}
- ☐ b. {A, E} {B, D, F} {C, G}
- ☒ c. {A, F, G}, {B, D} and {C, E}
- ☐ d. {A, F, G} {B, D} and {C, E}
- ☐ e. {A, D, E} {B, F} {C, G}

≡ Quiz na

1	2	3
9	10	11
17	18	19
25		

Finish attempt .

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Next page



Consider the following distance matrix. What would be the second cluster resulted after applying complete-link agglomerative clustering?

	A	B	C	D
A	0			
B	10	0		
C	13	6	0	
D	24	21	9	0

Select one:

- ☐ a. B, C, D
- ☒ b. B, C, A
- ☐ c. A, C, D
- ☐ d. A, D, B
- ☐ e. None of the above



Consider the following distance matrix. What would be the second cluster resulted after applying complete-link agglomerative clustering?

	A	B	C	D
A	0			
B	10	0		
C	13	6	0	
D	24	21	9	0

Select one:

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- ☒ b. B, C, A
- ☐ c. A, C, D
- ☐ d. A, D, B
- ☐ e. None of the above





2

Answered  
out of 1.0  
question

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Next page



2

Answered  
out of 1.0  
Question

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Next page

mammals

Select the correct answer which contains the class of the unlabeled data shown in following table for the animals in order; <gibbon, flamingo, lion and cockroach>.

Name	Body Temperature	Gives Birth	Class
gibbon	warm	yes	?
flamingo	warm	no	?
lion	warm	yes	?
cockroach	cold	no	?

Select one:

- ☐ a. Non - Mammals, Mammals, Mammals, Non-mammals
- ☒ b. Mammals, Non-mammals, Non - Mammals, Non-mammals
- ☐ c. Mammals, Non-mammals, Mammals, Non-mammals
- ☐ d. Non - Mammals, Non- Mammals, Mammals, Non-mammals
- ☐ e. Mammals, Mammals, Mammals, Non-mammals

Next page

mammals

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lion	warm	yes	?
cockroach	cold	no	?

Select one:

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- ☒ b. Mammals, Non-mammals, Non - Mammals, Non-mammals
- ☐ c. Mammals, Non-mammals, Mammals, Non-mammals
- ☐ d. Non - Mammals, Non- Mammals, Mammals, Non-mammals
- ☐ e. Mammals, Mammals, Mammals, Non-mammals

Next page





Consider the following distance matrix. What would be the second cluster resulted after applying complete-link agglomerative clustering?

	A	B	C	D
A	0			
B	45	0		
C	13	23	0	
D	20	21	9	0

Select one:

- ☐ a. B, C, D
- ☐ b. B, C, A
- ☒ c. A, C, D
- ☐ d. A, D, B
- ☐ e. None of the above

Question 18

Not yet answered

Marked out of 1.0

Flag question

Consider the following count matrix developed for the prediction of students' grade using specialty.

Specialty	Grade	
	Yes	No
IT	4	1
Medicine	1	3
Engineering	0	2
Sociology	1	1

Which of the following is  $Gini(Specialty)$ ?

Select one:

- ☐ a. 0.0
- ☒ b. 0.315
- ☐ c. 0.500
- ☐ d. 0.037
- ☐ e. 0.375

Question 18

Not yet answered

Marked out of 1.0

Flag question

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Specialty	Grade	
	Yes	No
IT	4	1
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- ☐ a. 0.0
- ☒ b. 0.315
- ☐ c. 0.500
- ☐ d. 0.037
- ☐ e. 0.375



# Online Exams

Sri Lanka Institute of Information Technology

Which of the following are limitations of the K-means algorithm

Select one or more:

- ☐ a. Not Sensitive to outliers
- ☒ b. Issues in clustering data of various sizes and density
- ☒ c. cannot find clusters with arbitrary shapes
- ☒ d. K- should be selected
- ☒ e. Initial centroids are selected systematically





# Online Exams

Sri Lanka Institute of Information Technology

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- ☐ a. Not Sensitive to outliers
- ☒ b. Issues in clustering data of various sizes and density
- ☒ c. cannot find clusters with arbitrary shapes
- ☒ d. K- should be selected
- ☒ e. Initial centroids are selected systematically



Which of the following is true regarding correlation between two variables  $x$  and  $y$ ?

Select one or more:

- ☒ a. if there is a very strong correlation between  $x$  and  $y$  correlation coefficient must be zero
- ☒ b. Correlation coefficient could be used to determine a specific value of the  $y$ -variable given a specific value of the  $x$ -variable
- ☒ c. if there is a very strong correlation between  $x$  and  $y$  correlation coefficient must be any value larger than 1
- ☐ d. The strength of the relationship between the  $x$  and  $y$  could be determined by correlation
- ☐ e. if  $x$  and  $y$  have a strong negative correlation coefficient is a much smaller than 0

Next page

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- ☐ e. if  $x$  and  $y$  have a strong negative correlation coefficient is a much smaller than 0

Next page

Question 25

Not yet answered  
Marked out of 1.0  
Flag question

Consider the following data frame named data.

	R&D Spend	Administration	Marketing Spend	State	Profit
0	165349.20	136897.80	471784.10	New York	192261.83
1	162697.70	151377.59	443898.53	California	191792.06
2	153441.51	101145.55	407934.54	California	191050.39
3	144372.41	118671.85	383199.52	New York	182901.99
4	142107.34	91391.77	366168.42	California	166187.94
5	131676.90	99814.71	362861.36	New York	156991.12
6	134615.46	147198.87	127716.82	California	156122.51
7	130296.13	145530.06	323876.68	New York	155752.60
8	120542.52	148718.95	311613.29	New York	152211.77
9	123334.88	108679.17	304981.62	California	149759.96

which of the following is true?

Select one or more:

- ☐ a. data.iloc[ : 2, 4] returns the content of Administration and Marketing Spend columns
- ☐ b. data[Administration] describes generates descriptive statistics for the data in column Administration.
- ☐ c. data[ : 4] command provide the same output as data[Profit]
- ☐ d. data.shape[1] returns 4.
- ☐ e. data.head() returns all column values for the first five rows in the data frame

Quiz navigation

- 1
- 2
- 3
- 4
- 5
- 9
- 10
- 11
- 12
- 13
- 17
- 18
- 19
- 20
- 21

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Finish attempt --

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## Question 25

Not yet answered  
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Flag question

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	R&D Spend	Administration	Marketing Spend	State	Profit
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3	144372.41	118671.85	383199.52	New York	182901.99
4	142107.34	91391.77	366168.42	California	166187.94
5	131676.90	99814.71	362861.36	New York	156991.12
6	134615.46	147198.87	127716.82	California	156122.51
7	130296.13	145530.06	323876.68	New York	155752.60
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### Quiz navigation

1	2	3	4	5
9	10	11	12	13
17	18	19	20	21

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Time left 0:01:50



# Online Exams

Sri Lanka Institute of Information Technology

Consider the following distance matrix. Assuming A and E are initial centroids for K-means algorithm, what would be the resulted clusters after the first epoch?

	A	B	C	D	E	F	G
A	0						
B	9	0					
C	1	0	0				
D	16	4	8	0			
E	3	12	0	20	0		
F	11	26	13	12	1	0	
G	19	25	23	2	8	10	0

Select one:

- ☐ a. A, C, D, G and B, E, F
- ☒ b. A, D and B, C, E, F, G
- ☐ c. A, B, G and C, D, E, F
- ☐ d. A, B, C and D, E, F, G
- ☐ e. A, B, D and C, E, F, G

## Quiz navigation

1	2	3	4	5	6
9	10	11	12	13	14
17	18	19	20	21	22
25					

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Time left 0:36:47

Next page



# Online Exams

Sri Lanka Institute of Information Technology

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9	10	11	12	13	14
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Finish attempt ...

Time left 0:36:47

Next page



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## Quiz navigation

1	2	3	4	5	6
9	10	11	12	13	14
17	18	19	20	21	22
25					

Finish attempt ...

Time left 0:36:47

Next page





Which of the following is **not** a classification technique?

Select one:

- ☐ a. K-nearest neighbor
- ☐ b. Random forest
- ☐ c. Support vector machine
- ☒ d. K-means analysis
- ☐ e. Neutral networks



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Which of the following are strengths of decision tree methods?

Select one or more:

- ☒ a. Decision tree classifiers perform series of condition checking with one attribute at a time
- ☒ b. Decision trees provides a clear indication of order of variables to check to come to a conclusion
- ☒ c. Decision trees are able to generate set of rules which are easy to understand.
- ☐ d. Calculations in decision trees can become complex when there are many class labels
- ☒ e. Decision trees are able to handle both continuous and categorical variables.



4

Answered  
out of 1.0  
question

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