## Revision2

1	is the process of performing data mining on the web.
a.ı	Data mining
b.F	ile mining
c. \	Web mining
d.N	None of them
2. W	eb data includes
a.	web documents
b.	hyperlinks between documents
C.	usage logs of web sites
<mark>d.</mark>	All the above
a. T	eb data sets could be very large True alse
4. Wh	ich of the following is a web content mining Agent-Based
Appro	
• •	ultilevel-Databases
b. Inf	ormation-Categorization
c. W	eb-Query Systems
d. No	one of the above
a. To b. Fa 6. Meas	ulse suring the completeness of Web sites is one of the Web Usage applications? rue

- 12. Which of the following features can be used for accuracy improvement of a classification model?
- a. Frequency count of terms
- b. Vector Notation of sentence
- c. Part of Speech Tag
- d. Dependency Grammar
- e. All the above
- 13. A crude heuristic process that chops off the ends of the words to reduce inflectional forms of words and reduce the size of the vocabulary is called:
- a. Lemmatization
- b. Case Folding
- c. True casing
- d. Stemming
- 14. The purpose of the inverse document frequency is to increase the weight of terms with high collection frequency.
  - a. True
  - ь. False
- 15. The number of documents within a collection that contain a particular term is the collection frequency of the term.
- a. True
- b. False
- 16. refers to the use of a vocabulary and morphological analysis of words
- a.. Lemmatization
- b. Case Folding
- c. True casing
- d. Stemming

17. A metric derived by taking the log of N divided by the document frequency where N is the total number of documents in a collection is called:
<ul><li>a. document frequency</li><li>b. tf-idf weight</li><li>c. collection frequency</li><li>d. inverse document frequency</li></ul>
18. 1. The truth values of traditional set theory is and that of fuzzy set is
a. Either 0 or 1, between 0 & 1  b. Between 0 & 1, either 0 or 1  c. Between 0 & 1, between 0 & 1  d. Either 0 or 1, either 0 or 1
19. The Statement "when I say the temperature is 45° Celsius, the viewer converts the crisp input value into a linguistic variable like 'hot or cold" indicates which process?
<ul><li>a. Fuzzification.</li><li>b. Defuzzification.</li><li>c. Both B &amp; C.</li><li>d. None of the above.</li></ul>
<ul><li>20- The room temperature is hot. Here the hot (use of linguistic variable is used) can be represented by</li><li>a. Fuzzy set.</li></ul>
b. Crisp set.
21- The first step in fuzzy logic processing is called
<ul> <li>a. Fuzzification.</li> <li>b. Rule valuation.</li> <li>c. Defuzzification.</li> <li>d. Aggregation of all outputs.</li> </ul>

22. Which of the following steps use center of gravity (COG) and maximum methods?
<ul> <li>a. Fuzzification</li> <li>b. Rule valuation.</li> <li>c. Defuzzification</li> <li>d. Aggregation of all outputs.</li> </ul>
23. Traditional set theory is also known as Crisp Set theory.
a.True
b.False
24. A single neuron consists of
<ul><li>a. Weights</li><li>b. Inputs</li><li>c. Outputs</li><li>d. All of the above</li></ul>
25 can help to automate complex decision making
<ul> <li>a. Neural Networks</li> <li>b. Artificial Neural Networks</li> <li>c. Artificial Neurons</li> <li>d. None of the above</li> </ul>
<ul> <li>26. Neural Networks learn from past experience and improve their performance levels.</li> <li>a. True</li> <li>b. False</li> </ul>
27. Ns generalizing the problem from examples to be able to respond to unseen data.  a. True  b. False
28 is the process of modifying the weights in order to produce a network that performs some function.
<ul><li>a. Testing</li><li>b. Learning</li><li>c. Construction</li></ul>

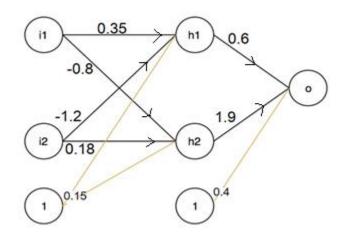
d. Updating

29. Long training time is considered as a .......

- a. Weakness
- b. Strength
- c. Not a correct statement

 $30.\ \ldots \ldots$  Is one of the simplest models of Neural Networks.

- a. single -layer feed-forward
- b. Perceptron
- c. Recurrent Neural Network
- d. Multi-layer Neural Network



Given

$$i1 = 1.9$$
,  $i2 = 0.6$ 

use the sigmoid function as an activation function to ans

Answer the following questions

31. h1=.....

- a. 0.095
- b. 0.4763
- c. 0.5237

d. 0.3512
32. h2=
<ul> <li>a1.262</li> <li>b. 0.2206</li> <li>c. 0.7794</li> <li>d. 1.2356</li> </ul>
33. O =
a. 0.75646
b. 1.13336
c. 0.24354
d. 0.4256
34 is a network with feedback, where some of its inputs are connected to some of its outputs (discrete time).
a. Perceptron.
b. multi-layer Networks.
c. Recurrent Neural Networks
d. none of the above
35. Perceptions are used in linear problems such as Boolean problem (AND,OR)
a. True.
b. False
36. Sentiment Analysis is an application of Recurrent Neural Networks
a. True.
b. False

a. <mark>True</mark> .
b. False
38. Which of the following is a TF-IDF formula:
<ul> <li>a. (N/df(t))</li> <li>b. TF(t,d) x IDF(t)</li> <li>c. TF(t,d) * log(N/df(t))</li> </ul>
d. Both b & c  39. Which of the following approaches used for determining the terms' weights
<ul> <li>a. Binary weights</li> <li>b. Term Frequency (TF)</li> <li>c. Inverse Document Frequency (IDF)</li> <li>d. TF-IDF</li> <li>e. All the above</li> </ul>
40. Which of the following is a Pattern Discovery Task? a. Clustering and Classification

37. web data are usually semi-structured or unstructured

b. Interpretation

d. Both a&c

c. Association Rules