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SAS Viya 3.5 Natural Language Processing and Computer Vision

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QUESTION 1

Which statement is TRUE regarding the Topics node in SAS Visual Text Analytics\\'\\'

A. The term relevancy score ranges front 0 to 1.

B. A custom topic assigns a term relevancy score of 1 to each document containing the term.

C. You can split or merge topics

D. A single document contains only one topic

Correct Answer: D

QUESTION 2

Given an equivalent number of neurons why would you use an LSTM-based recurrent neural network over a conventional recurrent neural network?

A. Implementation advantages - easier lo parallelize

B. Size - uses (ewer parameters

C. Efficiency-requires fewer computations

D. Sequence memory - learns data dependencies spanning more sequence elements

Correct Answer: B

QUESTION 3

Which option is the correct activation (unction for the output layer in a CNN model trained to classify an image belonging to one of the n classes (CI. C2, C3, , Cn)?
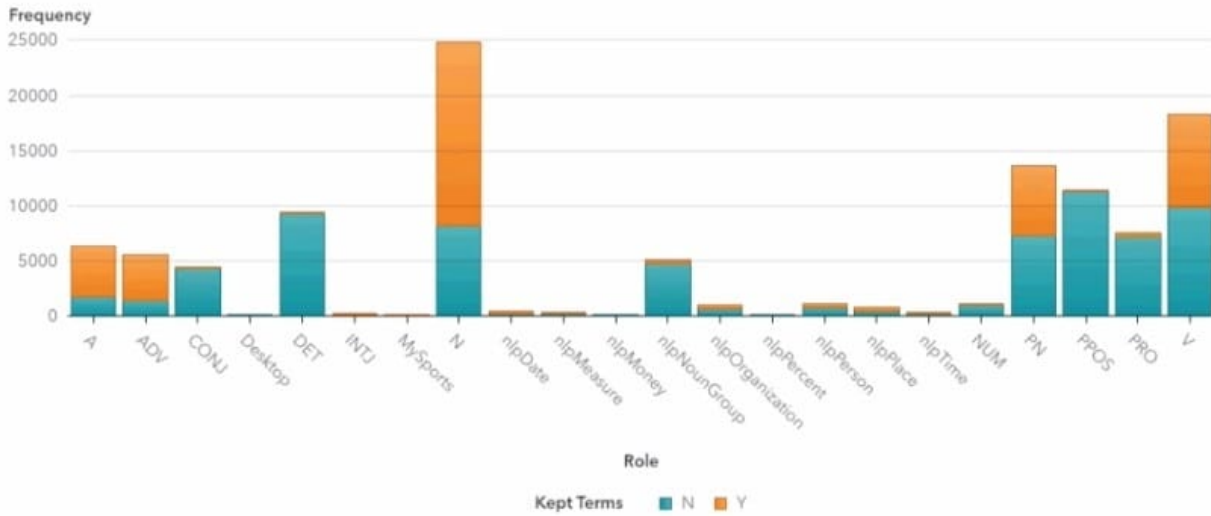
A. Sigmoid

B. ReLU

C. TanH

D. Softmax

Correct Answer: A

QUESTION 4

Refer to the exhibit.

Role by Frequency

Which statements are TRUE? (Choose two)

A. More proper nouns terms than the pronouns terms are kept

B. There are 9 concepts in total

C. There are 2 custom concepts

D. Most preposition terms are kept

Correct Answer: CD

QUESTION 5

CASL

```
BuildModel/model={name='simple', replace=1} type = 'RNN';

AddLayer/model='simple' name='data' layer={type='input'};

AddLayer/model='simple' name='rnn11' layer={type='recurrent'
            n=10 rnnType='RNN' outputtype='encoding'}
            srcLayers={'data'};

AddLayer/model='simple' name='outlayer' layer={act='softmax'
            type='output' n=3}
            srcLayers={'rnn11'};
```

Python

```
s.buildmodel(model=dict(name='simple', replace=True),
type='RNN')

s.addlayer(model='simple', name='data',layer=dict(type='input'))

s.addlayer(model='simple', name='rnn11', srclayers=['data'],
          layer=dict(type='recurrent', n=10 ,rnnType='RNN',
outputType='encoding', reverse=False))

s.addlayer(model='simple', name='outlayer',
srclayers=['rnn11'], layer=dict(act='softmax',type='output', n=3))
```

Review the code in the CASL and Python tabs The code sets are the same but in different languages. Given this code which statement correctly describes this recurrent neural network built by the code set1?

A. The RNN assigns a classification to each element in the sequence

B. The RNN predicts the next value in a sequence

C. The RNN assigns a classification to the entire sequence

D. The RNN predicts the previous value in a sequence

Correct Answer: A

QUESTION 6

The following text siring "Wonder, Wondering, Wonderful, Wonderment, Wonders" is tested using the Category Rule

(OR, "wonder0">

Which terms are highlighted in the text string?

A. Wonders

B. Wonder Wondering, Wonders

C. Wonder Wonders

D. Wonder Wondering

E. Wonderful, Wonderment, Wonders

Correct Answer: D

QUESTION 7

Which concept rule must be used for generating factual extraction within a sentence containing machine learning and text analytics?

A.
```
PREDICATE_RULE:(a,b):(SENT, "_a{machine learning }", "_b{text analytics}")
```

B.
```
CONCEPT_RULE:(a,b):(SENT, "_a{machine learning }", "_b{text analytics}")
```

C.
```
PREDICATE_RULE:(a,b):(SENT, "_c{machine learning }", "_ref{text analytics}")
```

D.
```
CONCEPT_RULE:(SENT, "_c{machine learning }", "_ref{text analytics 0}")
```
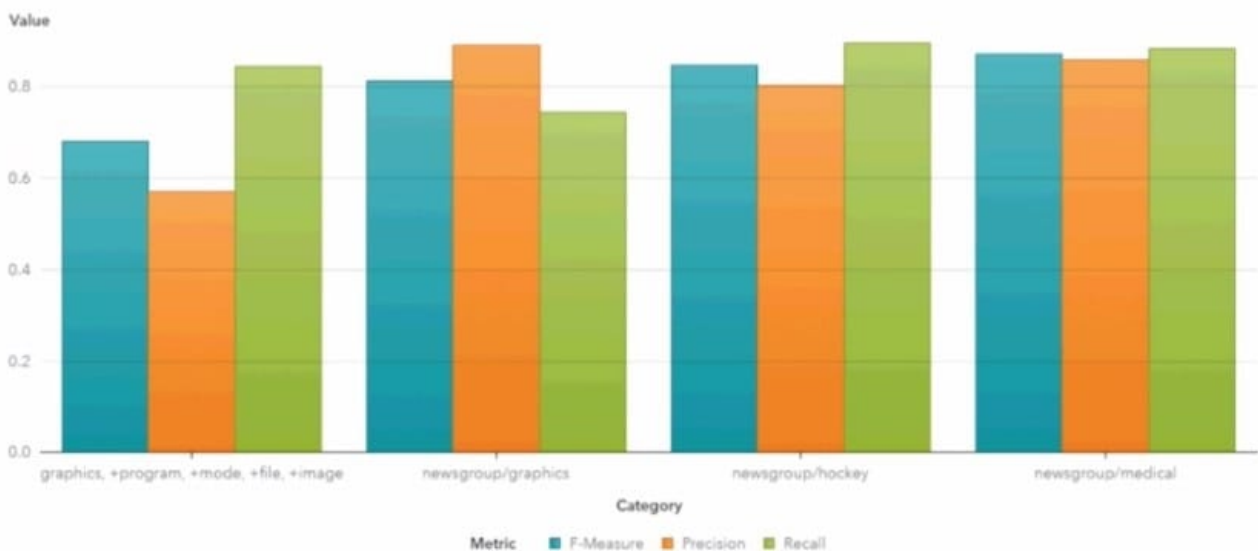
A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: C

QUESTION 8

Refer to the exhibit.

What is the false negative rate for the category that has the 2nd worst average measure1?

A. Between 1 and 2 B. Less than 1

C. Between 2 and 3

D. Greater than 5

Correct Answer: C

QUESTION 9

Refer to the exhibit.

Exhibit A - Image

5	5	10	20	40	30	30	0	0	...
5	10	20	50	40	25	21	40	0	...
10	20	52	68	31	27	29	34	50	...
37	39	47	29	27	7	7	8	35	...
30	31	40	15	11	9	3	0	0	...
25	29	44	12	10	6	0	0	0	...
25	15	10	0	0	0	0	0	0	...
...	...	...	...	...	...	...	...	...	...

Exhibit B - Filter

0	0	0	0	0
0	0	0	0	1
0	0	0	1	0
0	0	1	0	0
0	1	0	0	0

The pixel intensity values for the top left corner of a 224x224 grey scale image are provided in Exhibit A This image is provided as input to the convolutional filter (Exhibit B) with equal zero padding of size 2 on all sides

What is the first value in the feature map resulting from applying this filler (cross-correlation operation)?

A. 186

B. 0

C. 10

D. 97

Correct Answer: A

QUESTION 10

Given these two addLayer action calls:

```
addLayer model='mymodel' name="fc1"

        layer={type='fullconnect' n=20} srcLayers={"data"};

addLayer model='mymodel' name="fc2"

        layer={type='fullconnect' n=50} srcLayers={"fc1"};
```

How many trainable parameters for layer fc2?

A. 70

B. 1050

C. 1020

D. 1000

Correct Answer: D

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