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**Grade** 12.0 out of 20.0 (60%)

### Question 1

Correct

Mark 1.0 out of 1.0

\_\_\_\_\_ can be created by concatenating pieces of recorded speech that are stored in a database

- ☐ a. Speech Recognition
- ☐ b. Acoustic Transcription
- ☐ c. Phonetic Transcription
- ☒ d. Speech Synthesis ✓

The correct answer is: Speech Synthesis

### Question 2

Correct

Mark 1.0 out of 1.0

Case folding is used to \_\_\_\_\_

- ☐ a. Stemming
- ☐ b. Tokenization
- ☐ c. Lemmatization
- ☒ d. Normalization ✓

The correct answer is: Normalization

**Question 3**

Correct

Mark 1.0 out of 1.0

Document preprocessing steps are

- ☐ a. Substitution
- ☒ b. All ✓
- ☐ c. Normalization
- ☐ d. Tokenization

The correct answer is: All

**Question 4**

Correct

Mark 1.0 out of 1.0

In which algorithm the correct meaning of each word context is found by getting the sense which overlaps the most among the given context and its dictionary meaning?

- ☐ a. Associated Lesk ALgorithm
- ☐ b. Desk ALgorithm
- ☐ c. UNL ALgorithm
- ☒ d. Simple Lesk ALgorithm ✓

The correct answer is: Simple Lesk ALgorithm

**Question 5**

Incorrect

Mark 0.0 out of 1.0

is one hot-vector a dense vector

- ☒ a. True ✗
- ☐ b. Either True or False
- ☐ c. False
- ☐ d. Neither True nor False

The correct answer is: False

**Question 6**

Correct

Mark 1.0 out of 1.0

OpenCV stores RGB pixels in what order

- ☐ a. GBR
- ☐ b. RGB
- ☒ c. BGR ✓
- ☐ d. BRG

The correct answer is: BGR

**Question 7**

Correct

Mark 1.0 out of 1.0

Suppose our image has a width of 700 pixels a height of 550 pixels and 3 channels one for Red, green and Blue component. How would we express this image as a NumPy array shape?

- ☐ a. (550, 700, 3)
- ☒ b. (700, 550, 3) ✓
- ☐ c. (3, 550, 700)
- ☐ d. (3, 700, 550)

The correct answer is: (700, 550, 3)

**Question 8**

Correct

Mark 1.0 out of 1.0

The most frequent words are kept at a shorter distance from the root by \_\_\_\_\_

- ☒ a. Huuffman encoding ✓
- ☐ b. Run-length encoding
- ☐ c. None of the Above
- ☐ d. Transform coding

The correct answer is: Huuffman encoding

**Question 9**

Incorrect

Mark 0.0 out of 1.0

The RGB tuple (255, 0, 0) codes for red but OpenCV would actually interpret this color as

- ☐ a. Orange
- ☐ b. Green
- ☐ c. Yellow
- ☒ d. Blue ✖

The correct answer is: Yellow

**Question 10**

Incorrect

Mark 0.0 out of 1.0

The statement "Hierarchical Softmax does not provide a unique path to each word in the vocabulary" is

- ☐ a. True
- ☒ b. False ✖
- ☐ c. Neither True nor False
- ☐ d. Either True or False

The correct answer is: True

**Question 11**

Correct

Mark 1.0 out of 1.0

What are the gates used in LSTM network?

- ☐ a. inout gate, cell gate, former gate, output gate
- ☐ b. cell gate, forget gate, output gate
- ☒ c. input gate, forget gate, output gate ✔
- ☐ d. inout gate, former gate, output gate

The correct answer is: input gate, forget gate, output gate

**Question 12**

Correct

Mark 1.0 out of 1.0

What is false about AlexNet?

- ☒ a. Inout size is dynamic due to the presence of fully connected layers ✓
- ☐ b. AlexNet overall has 60 million parameters
- ☐ c. The input size is mentioned at most of the places as 224x224x3 but due to some padding which happens it works out to be 227x227x3
- ☐ d. AlexNet architecture consists of 5 convolutional 3 max-pooling layers 2 normalization layers, 2 fully connected layers and 1 softmax layer

The correct answer is: Inout size is dynamic due to the presence of fully connected layers

**Question 13**

Correct

Mark 1.0 out of 1.0

What is the full form of BERT?

- ☒ a. Bidirectional Encoder Representations from Transformers ✓
- ☐ b. Bidirectional Encoder Redundancy from Transducers
- ☐ c. Bidirectional Encoder Recurrent for Transformation
- ☐ d. Bi-associated Encoder Representations from Training

The correct answer is: Bidirectional Encoder Representations from Transformers

**Question 14**

Incorrect

Mark 0.0 out of 1.0

What is the height of the balanced binary tree if the vocabulary size is 128?

- ☐ a. None of the Above
- ☒ b. 32 ✗
- ☐ c. 7
- ☐ d. 64

The correct answer is: 7

**Question 15**

Correct

Mark 1.0 out of 1.0

What is the role of Program Memory in digital signal processing

- ☒ a. Stores the programs the DSP will use to process data ✓
- ☐ b. Stores the information to be processed
- ☐ c. Performs the math processing, accessing the program from the Program Memory and the data from the Data Memory
- ☐ d. Object detection and recognition

The correct answer is: Stores the programs the DSP will use to process data

**Question 16**

Incorrect

Mark 0.0 out of 1.0

Which machine learning is developed for a task is reused as the starting point for a model on a second task

- ☒ a. Ensemble Learning ✗
- ☐ b. Reinforcement Learning
- ☐ c. Federated Learning
- ☐ d. Transfer Learning

The correct answer is: Transfer Learning

**Question 17**

Incorrect

Mark 0.0 out of 1.0

Which object detection network uses the ROI Pooling layer

- ☒ a. All of the Above ✗
- ☐ b. Fast R-CNN
- ☐ c. R-CNN
- ☐ d. YOLO

The correct answer is: Fast R-CNN

**Question 18**

Incorrect

Mark 0.0 out of 1.0

Which one of the following is linearly inseparable

- ☐ a. None of the above
- ☐ b. NOR
- ☒ c. Compliment of XOR ✖
- ☐ d. NAND

The correct answer is: NAND

**Question 19**

Incorrect

Mark 0.0 out of 1.0

Which techniques can be used to reduce the number of channels or the feature maps?

- ☒ a. 1x1 convolution ✖
- ☐ b. Both B and C
- ☐ c. Padding
- ☐ d. Pooling

The correct answer is: Both B and C

**Question 20**

Correct

Mark 1.0 out of 1.0

While talking about the semantic parsing which among the below statements is false?

- ☐ a. Semantic parsing can thus be understood as extracting the precise meaning of an utterance
- ☐ b. Semantic parsing is the task of converting a natural language utterance to a logical form a machine-understandable representation of its meaning
- ☒ c. It splits the sequence of text into a bunch of words that are related in a sort of phrase ✔
- ☐ d. Applications of semantic parsing include machine translation, question answering, ontology induction, automated reasoning, and code generation

The correct answer is: It splits the sequence of text into a bunch of words that are related in a sort of phrase