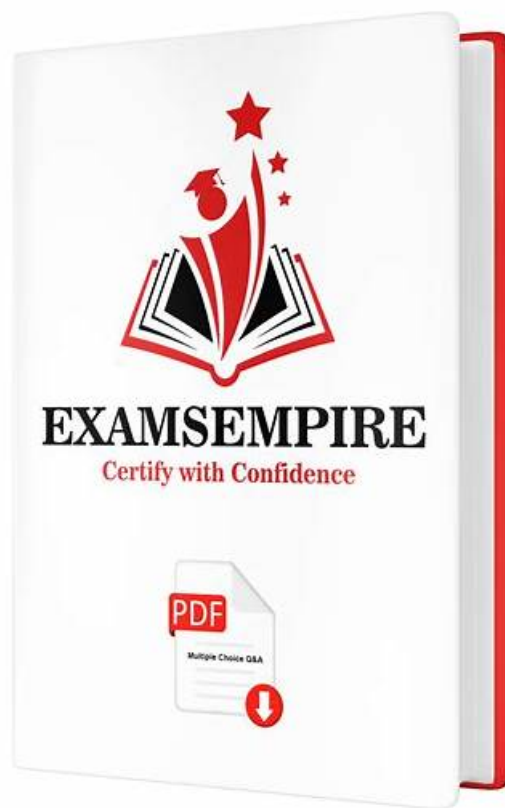


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## Huawei HCIP-AI-EI Developer V2.5 Sample Questions (Q58-Q63):

### NEW QUESTION # 58

The deep neural network (DNN)-hidden Markov model (HMM) does not require the HMM-Gaussian mixture model (GMM) as an auxiliary.

- A. TRUE
- B. FALSE

**Answer: B**

Explanation:

In traditional hybrid DNN-HMM speech recognition systems, the DNN is often trained using frame-level alignments generated by an HMM-GMM system. The GMM serves as an auxiliary tool to perform initial alignments between audio frames and phonetic units, which are then used to train the DNN. Without the HMM-GMM step, supervised training of the DNN in this context is typically not possible.

Exact Extract from HCIP-AI EI Developer V2.5:

"In a DNN-HMM hybrid system, the DNN replaces the GMM in modeling emission probabilities, but GMMs are still used in the initial alignment process to prepare training data for the DNN." Reference: HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Hybrid Speech Recognition Models

### NEW QUESTION # 59

Mel-frequency cepstral coefficients (MFCCs) take into account human auditory characteristics by first mapping the linear spectrum to the Mel nonlinear spectrum based on auditory perception, and then converting it to the cepstral domain.

- A. TRUE
- B. FALSE

**Answer: A**

Explanation:

MFCCs are a widely used feature extraction method in speech recognition. The process involves:

- \* Converting the time-domain signal to the frequency domain using the Fourier transform.
- \* Mapping the frequency scale to the Mel scale to mimic human hearing perception.
- \* Taking the logarithm of the power spectrum to emphasize perceptually important differences.
- \* Applying the discrete cosine transform (DCT) to obtain cepstral coefficients.

These steps capture the spectral envelope, which is important for distinguishing phonemes in speech.

Exact Extract from HCIP-AI EI Developer V2.5:

"MFCCs transform audio to the Mel scale, applying log compression and cepstral transformation to align with human auditory characteristics." Reference: HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Speech Feature Extraction

### NEW QUESTION # 60

Which of the following are object detection algorithms?

- A. YOLO
- B. SSD
- C. R-CNN
- D. Faster-R-CNN

**Answer: A,B,C,D**

Explanation:

The major families of object detection algorithms include:

- \* R-CNN (Region-based CNN): Uses region proposals with CNN feature extraction.
- \* YOLO (You Only Look Once): Performs real-time detection by predicting bounding boxes and class probabilities in a single pass.
- \* SSD (Single Shot MultiBox Detector): Uses multiple feature maps for detecting objects at different scales in one pass.
- \* Faster-R-CNN: Improves R-CNN with a Region Proposal Network for speed.

Exact Extract from HCIP-AI EI Developer V2.5:

"Common object detection algorithms include R-CNN, Faster R-CNN, YOLO, and SSD, each using different approaches for balancing accuracy and speed." Reference:HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Object Detection

#### NEW QUESTION # 61

Which of the following statements about the functions of layer normalization and residual connection in the Transformer is true?

- A. Residual connections and layer normalization help prevent vanishing gradients and exploding gradients in deep networks.
- B. Residual connections primarily add depth to the model but do not aid in gradient propagation.
- C. In shallow networks, residual connections are beneficial, but they aggravate the vanishing gradient problem in deep networks.
- D. Layer normalization accelerates model convergence and does not affect model stability.

**Answer: A**

Explanation:

In Transformers:

\* Residual connections help preserve gradient flow through deep networks, mitigating vanishing /exploding gradient issues.

\* Layer normalization stabilizes training by normalizing across features, improving convergence speed and training stability. Thus, A is correct, while B, C, and D are incorrect.

Exact Extract from HCIP-AI EI Developer V2.5:

"Residual connections and layer normalization stabilize deep network training, prevent gradient issues, and accelerate convergence."

Reference:HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Transformer Training Mechanisms

#### NEW QUESTION # 62

In NLP tasks, transformer models perform well in multiple tasks due to their self-attention mechanism and parallel computing capability. Which of the following statements about transformer models are true?

- A. A transformer model directly captures the dependency between different positions in the input sequence through the self-attention mechanism, without using the recurrent neural network (RNN) or convolutional neural network (CNN).
- B. Positional encoding is optional in a transformer model because the self-attention mechanism can naturally process the order information of sequences.
- C. Transformer models outperform RNN and CNN in processing long texts because they can effectively capture global dependencies.
- D. Multi-head attention is the core component of a transformer model. It computes multiple attention heads in parallel to capture semantic information in different subspaces.

**Answer: A,C,D**

Explanation:

Transformers are designed for sequence modeling without recurrence or convolution.

\* A:True - self-attention captures global dependencies efficiently, outperforming RNNs/CNNs in long text processing.

\* B:True - multi-head attention computes multiple attention projections in parallel.

\* C:True - the architecture is purely attention-based.

\* D:False - positional encoding is required because self-attention does not inherently encode sequence order.

Exact Extract from HCIP-AI EI Developer V2.5:

"The Transformer uses self-attention to model dependencies and multi-head attention to capture features in different subspaces.

Positional encoding must be added to preserve sequence order." Reference:HCIP-AI EI Developer V2.5 Official Study Guide - Chapter: Transformer Architecture

#### NEW QUESTION # 63

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