Question 1

Dropout is to randomly discard a certain proportion of sample data during model training.

Options:

A- TRUE

B- FALSE

Answer:

B

Question 2

What are the tasks in the voice domain that GMM is suitable for processing? (multiple choices)

Options:

A- Speech recognition

B- Speech synthesis

C- Voice noise reduction

D- Voice tracking

Answer:

C, D

Question 3

Question Type: MultipleChoice

The technology of converting text information into speech is called speech synthesis?

Options:

A- TRUE

B- FALSE

Question 4

Question Type: MultipleChoice

What are the main functions of GMM in traditional speech recognition tasks?

Options:

A- The probability that the output feature corresponds to the frame

B- Probability of output features corresponding to speech

C- Probability of corresponding state of output feature

D- Probability of corresponding factors of output characteristics

Answer:

D

Question 5

Question Type: **MultipleChoice**

In the GMM-HMM model, GMM is mainly used to find the probability of a certain factor, and HMM is mainly used to model each text-speech pair.

Options:

A- TRUE

B- FALSE

Answer:

A

Question 6

Question Type: **MultipleChoice**

The status sequence of HMM can neither be obtained directly nor through observation sequence.

Options:

A- TRUE

B- FALSE

Answer:

B

Question 7

Question Type: **MultipleChoice**

What are the properties of Markov chains?

Options:

A- Positive definiteness

B- Continuity

C- Discreteness

D- Limitation

Answer:

A, D

Question 8

Question Type: **MultipleChoice**

Markov chain is a discrete event stochastic process with Markov properties in exponential science.

Options:

A- TRUE

B- FALSE

Question 9

Question Type: MultipleChoice

What is the most accurate estimation process?

1. Log-likelihood function

2. Probability density function

3. Likelihood function

4. Derivative and make the equation 0

5. Solving equations

Options:

A- 4-1-3-2-5

B- 1-3-4-2-5

C- 2-1-3-4-5

D- 2-3-1-4-5

Answer:

D