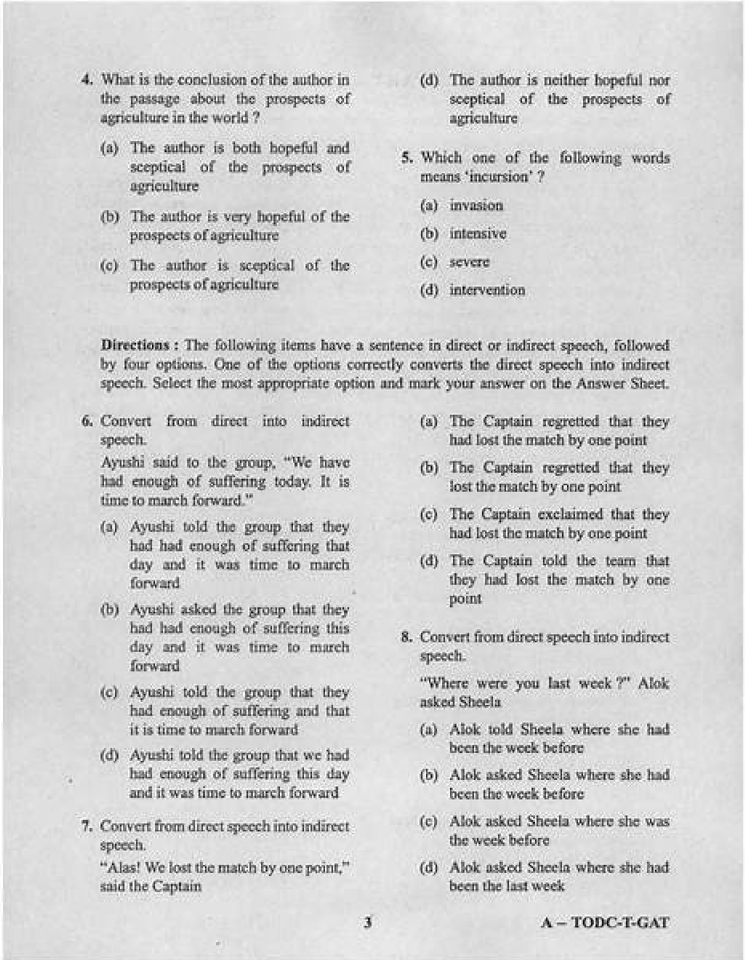
NCA-GENM Real Question | Official NCA-GENM Practice Test



4. What is the conclusion of the author in the passage about the prospects of agriculture in the world ?
   (a) The author is both hopeful and sceptical of the prospects of agriculture
   (b) The author is very hopeful of the prospects of agriculture
   (c) The author is sceptical of the prospects of agriculture
   (d) The author is neither hopeful nor sceptical of the prospects of agriculture

5. Which one of the following words means 'incursion' ?
   (a) invasion
   (b) intensive
   (c) severe
   (d) intervention

Directions : The following items have a sentence in direct or indirect speech, followed by four options. One of the options correctly converts the direct speech into indirect speech. Select the most appropriate option and mark your answer on the Answer Sheet.

6. Convert from direct into indirect speech.
   Ayushi said to the group, "We have had enough of suffering today. It is time to march forward."
   (a) Ayushi told the group that they had had enough of suffering that day and it was time to march forward
   (b) Ayushi asked the group that they had had enough of suffering this day and it was time to march forward
   (c) Ayushi told the group that they had enough of suffering and that it is time to march forward
   (d) Ayushi told the group that we had had enough of suffering this day and it was time to march forward

7. Convert from direct speech into indirect speech.
   "Alas! We lost the match by one point," said the Captain
   (a) The Captain regretted that they had lost the match by one point
   (b) The Captain regretted that they lost the match by one point
   (c) The Captain exclaimed that they had lost the match by one point
   (d) The Captain told the team that they had lost the match by one point

8. Convert from direct speech into indirect speech.
   "Where were you last week ?" Alok asked Sheela
   (a) Alok told Sheela where she had been the week before
   (b) Alok asked Sheela where she had been the week before
   (c) Alok asked Sheela where she was the week before
   (d) Alok asked Sheela where she had been the last week

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NVIDIA Generative AI Multimodal Sample Questions (Q381-Q386):

NEW QUESTION # 381
You are building a multimodal model to translate spoken language into sign language animations. You have audio recordings of spoken words and corresponding sign language video sequences. Which architecture would be most suitable for this task?

- A. A simple feedforward neural network.
- B. A generative adversarial network (GAN) to generate realistic sign language animations.
- C. A support vector machine (SVM) to classify audio and video features.
- D. A recurrent neural network (RNN) or Transformer network with attention mechanisms to capture the temporal dependencies in both the audio and video sequences, and a connectionist temporal classification (CTC) loss function for alignment.
- E. A convolutional neural network (CNN) for audio and another CNN for video, followed by a fully connected layer.

Answer: D

Explanation:
RNNs or Transformer networks with attention mechanisms are best suited for sequence-to-sequence tasks like translation, as they can capture temporal dependencies. CTC loss helps align the audio and video sequences, even if they are not perfectly synchronized. CNNs are good for feature extraction but don't handle sequential data as well as RNNs/Transformers.

NEW QUESTION # 382
Consider the following Python code snippet using PyTorch Lightning and a Hugging Face Transformers model for multimodal classification. Which of the following code snippets is MOST appropriate to perform gradient accumulation in this context, assuming you want to accumulate gradients over 4 batches?

- A.
```
trainer = pl.Trainer(accelerator='gpu', devices=1)
for i, batch in enumerate(train_dataloader):
    loss = model(batch)
    loss.backward()
    if (i + 1) % 4 == 0:
        optimizer.step()
        optimizer.zero_grad()
```
- B.
```
trainer = pl.Trainer(accelerator='gpu', devices=1, accumulate_grad_batches=None)
```
- C.
```
trainer = pl.Trainer(accelerator='cpu', accumulate_grad_batches=4)
```
- D.
[illegible]

Answer: D

Explanation:
PyTorch Lightning provides a built-in argument in the 'Trainer' class to easily enable gradient accumulation. Setting will accumulate gradients over 4 batches before performing an optimizer step.

NEW QUESTION # 383
A self-driving car uses multimodal data (camera images, LiDAR point clouds, radar data, and GPS information) to navigate. The LiDAR sensor occasionally fails, resulting in missing point cloud dat a. How should the system be designed to handle this sensor failure gracefully and maintain safe navigation?

- A. Immediately stop the car until the LiDAR sensor is fixed.
- B. Use a sensor fusion technique that prioritizes the available modalities (camera, radar, GPS) and estimates the missing LiDAR data based on these modalities.
- C. Switch to a pre-programmed route that does not require LiDAR data.
- D. Employ a Kalman filter to predict the LiDAR point cloud based on the previous sensor readings and the car's motion model.
- E. Rely solely on the camera images and ignore the missing LiDAR data.

Answer: B,D

Explanation:
Stopping the car or relying solely on a single modality is not a robust solution. Using sensor fusion to prioritize available modalities and estimate missing data allows the system to continue navigating safely. A Kalman filter is a specific technique for estimating the state of a system (in this case, the LiDAR point cloud) based on noisy sensor readings and a motion model.

NEW QUESTION # 384
You are working on a sequence-to-sequence model for neural machine translation. You've implemented an attention mechanism, but the model is still struggling with long sentences, often losing context in the later parts of the translation. Which type of attention mechanism is most likely to alleviate this issue effectively?

- A. Multi-Head Attention
- B. Local (Hard) Attention
- C. Global (Soft) Attention
- D. Bahdanau Attention (Additive Attention)
- E. Self-Attention

Answer: A

Explanation:
Multi-Head Attention allows the model to attend to different parts of the input sequence with different learned linear projections, capturing richer relationships and improving performance on long sequences compared to single-head attention mechanisms- While other attention mechanisms are valuable, multi- head attention offers the most robust solution for long-range dependencies.

NEW QUESTION # 385
Which of the following statements accurately describes the purpose and functionality of 'LoRA' (Low-Rank Adaptation) in the context of fine-tuning large language models?

- A. LoRA is a fine-tuning technique that freezes the original weights of a pre-trained model and trains a small set of low-rank matrices to adapt the model to a specific task.
- B. LoRA is a method for compressing the weights of a pre-trained language model to reduce its memory footprint.
- C. LoRA is a type of attention mechanism used in transformer models.
- D. LoRA is a regularization technique used to prevent overfitting during fine-tuning.
- E. LoRA is a data augmentation technique used to increase the size of the training dataset.

Answer: A

Explanation:
LoRA (Low-Rank Adaptation) is a parameter-efficient fine-tuning technique that freezes the original pre-trained model weights and introduces a small number of trainable low-rank matrices. This allows for efficient adaptation to downstream tasks with significantly fewer trainable parameters compared to full fine-tuning. The goal is faster, and less expensive, and prevent catastrophic forgetting.

NEW QUESTION # 386
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