Started on	Tuesday, 28 January 2025, 2:08 AM
State	Finished
Completed on	Tuesday, 28 January 2025, 2:11 AM
Time taken	3 mins 8 secs
Grade	**5.00** out of 5.00 (**100**%)

Question **1**

Correct

Mark 1.00 out of 1.00

What type of data can Generative AI create?

- Text
- Images
- Music
- All of the above ✔

Your answer is correct.

The correct answer is:
All of the above

Question **2**

Correct

Mark 1.00 out of 1.00

Which component in a transformer encoder is responsible for contextualizing tokens by assigning weights to relationships between them?

- Tokenization
- Positional Embedding
- Multi-Head Attention ✔
- Dense Layer

Your answer is correct.

The multi-head attention mechanism computes relationships between tokens using query, key, and value vectors, enabling the model to understand context within sequences

The correct answer is:
Multi-Head Attention

Question **3**

Correct

Mark 1.00 out of 1.00

What type of architecture is primarily used for text generation in modern generative AI systems?

- Transformer Encoder
- Transformer Decoder ✔
- Convolutional Neural Network
- Diffusion Model

Your answer is correct.

Transformer decoders generate text sequences in an autoregressive manner, predicting the next token based on prior tokens

The correct answer is:
Transformer Decoder

Question **4**

Correct

Mark 1.00 out of

In generative AI, the probability vector produced by the model represents:

- The confidence scores for classifying images.

1.00

- The likelihood of each token in the vocabulary to be the next token ✔
- The positional encoding of tokens.
- The attention weights for input features

Your answer is correct.

Generative models output a probability distribution over the vocabulary for each token, which is used to select the next token in the sequence. Q.

The correct answer is:
The likelihood of each token in the vocabulary to be the next token

Question **5**

Correct

Mark 1.00 out of 1.00

Which mechanism allows transformer-based generative models to stop generating output?

- Softmax
- Cross-Entropy Loss
- End-of-Sentence Token ✔
- Attention Dropout

Your answer is correct.

The end-of-sentence token is a special token in the vocabulary that signals the model to terminate the generation process.

The correct answer is:
End-of-Sentence Token