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|---|---|
| Started on | Friday, 7 February 2025, 11:41 AM |
| State | Finished |
| Completed on | Friday, 7 February 2025, 11:44 AM |
| Time taken | 3 mins 55 secs |
| Marks | 10.00/10.00 |
| Grade | **100.00** out of 100.00 |

## Question 1

1.00/1.00

In GANs, which component is responsible for evaluating the authenticity of data?

- Decoder
- Generator
- None of the given options
- Discriminator✔
- Encoder

The correct answer is: Discriminator

## Question 2

1.00/1.00

Which of the following is a real-world application where GANs have shown significant promise?

- Time series forecasting
- Image-to-image translation✔
- Text summarization
- Image classification
- Speech recognition

The correct answer is: Image-to-image translation

## Question 3

1.00/1.00

Which component of a GAN is responsible for generating new data samples?

- Optimizer
- Generator✔
- Discriminator
- Decoder
- Encoder

The correct answer is: Generator

## Question 4

1.00/1.00

Which type of GAN allows for generating data based on specific categories?

- None of the given options
- Minimax GAN
- Mode Collapse GAN
- Conditional GAN✔
- Progressive GAN

The correct answer is: Conditional GAN

## Question 5

1.00/1.00

What is a challenge faced during GAN training due to the minimax game concept?

- Generator producing only a single mode
- Overfitting to the training data
- Discriminator becoming too weak
- Oscillations and non-convergence✔
- Quick convergence to a suboptimal solution

The correct answer is: Oscillations and non-convergence

## Question 6

1.00/1.00

The training process of GANs is often likened to which game?

- Minimax✔
- Poker
- Sudoku
- Chess
- None of the given options

The correct answer is: Minimax

## Question 7

1.00/1.00

Progressive GANs are designed to address which challenge in traditional GANs?

- Training stability and generating high-resolution images✔
- Mode collapse
- Slow training speeds
- Inability to generate colored images
- Discriminator overpowering the generator

The correct answer is: Training stability and generating high-resolution images

## Question 8

1.00/1.00

In the GAN architecture, what is the primary goal of the Discriminator?

- Generate realistic data samples
- Distinguish between real and generated samples✔
- Minimize the loss function
- Ensure mode diversity
- Replicate the generator's output

The correct answer is: Distinguish between real and generated samples

## Question 9

1.00/1.00

What is mode collapse in the context of GANs?

- When the model underfits
- When the generator produces limited varieties of outputs✔
- When the model overfits
- When the model converges too quickly
- When the discriminator becomes too powerful

The correct answer is: When the generator produces limited varieties of outputs

## Question 10

1.00/1.00

What does GAN stand for?

- Generalized Artificial Network
- Gradient Augmented Network
- None of the given options
- Generative Adversarial Network✔
- Generative Analytical Network

The correct answer is: Generative Adversarial Network