Started on	Friday, 7 February 2025, 12:18 PM
State	Finished
Completed on	Friday, 7 February 2025, 12:26 PM
Time taken	8 mins 2 secs
Marks	15.00/15.00
Grade	**100.00** out of 100.00

Question 1

1.00/1.00

In the generator code, what is the purpose of the Reshape layer?

- To upsample the images
- To normalize the image values
- To flatten the images
- To reshape the dense layer into a 3D tensor for images✔
- To critique the images

The correct answer is: To reshape the dense layer into a 3D tensor for images

Question 2

1.00/1.00

During training, what does the generator use to improve itself?

- Real images
- Feedback from both the user and the discriminator
- CIFAR-10 dataset
- Feedback from the user
- Feedback from the discriminator✔

The correct answer is: Feedback from the discriminator

Question 3

1.00/1.00

Which technique can help in dealing with training instability in GANs?

- Dropout
- Gradient clipping✔
- All of the given options
- Noise addition
- Data augmentation

The correct answer is: Gradient clipping

Question 4

1.00/1.00

Which activation function is used in the final layer of the generator model?

- softmax
- sigmoid
- tanh✔
- leakyrelu
- relu

The correct answer is: tanh

Question 5

1.00/1.00

In the provided code, why is discriminator.trainable set to False when setting up the combined system?

- None of the given options
- To speed up training
- To make sure only the generator is trained in this step✔
- To prevent overfitting
- To increase discriminator's accuracy

The correct answer is: To make sure only the generator is trained in this step

Question 6

1.00/1.00

What is used to refine the models during training?

- LeakyReLU
- Adam Optimizer✔
- All of the given options
- Conv2D
- Batch Normalization

The correct answer is: Adam Optimizer

Question 7

1.00/1.00

Why might someone want to use GANs on the CIFAR-10 dataset?

- To critique the images in the dataset
- To generate novel and relevant images to augment dataset✔
- To classify the images in the dataset
- To delete images from the dataset
- To reduce the size of the dataset

The correct answer is: To generate novel and relevant images to augment dataset

Question 8

1.00/1.00

Which challenge refers to the generator producing limited varieties or even the same sample every time?

- Convergence Issues
- All of the given options
- Training Instability
- Data Augmentation
- Mode Collapse✔

The correct answer is: Mode Collapse

Question 9

1.00/1.00

Which of the following best describes the role of the generator in a GAN?

- To critique images
- To evaluate the loss
- None of the given options
- To produce images✔
- To combine images

The correct answer is: To produce images

Question 10

1.00/1.00

What are the two main components of a GAN?

- Generator & UpSampler
- Generator & Discriminator✔
- Generator & Evaluator
- Discriminator & Sampler
- Discriminator & Evaluator

The correct answer is: Generator & Discriminator

Question 11

1.00/1.00

Which of the following is NOT a feedback given to the generator during training?

- This is a fake image
- This image looks like a car
- This image is pixelated✔

- This is a genuine image
- This image looks blurry

The correct answer is: This image is pixelated

Question 12

1.00/1.00

What does the discriminator do in a GAN?

- Combines images
- Evaluates if an image is real or fake✔
- Both create and evaluate images
- Enhances image resolution
- Creates images

The correct answer is: Evaluates if an image is real or fake

Question 13

1.00/1.00

How many images are there in each class of the CIFAR-10 dataset?

- 12000
- 6000✔
- 5000
- 15000
- 10000

The correct answer is: 6000

Question 14

1.00/1.00

Which architecture can help address convergence issues in traditional GANs?

- DBN
- WGAN✔
- RNN
- CNN
- LSTM

The correct answer is: WGAN

Question 15

1.00/1.00

In the discriminator's code, which layer helps in reducing the dimensions of the input image?

- UpSampling2D
- BatchNormalization
- Reshape
- Conv2D with strides✔
- Dense

The correct answer is: Conv2D with strides