

## generative ai - MCQs

1. What is the primary goal of Generative AI models?

- A. To classify data into predefined categories
- B. To generate new, original data or content
- C. To predict continuous values or outcomes
- D. To optimize business processes

2. Which of the following is an example of a Generative AI application?

- A. Sentiment Analysis
- B. Image Recognition
- C. Text-to-Image Synthesis
- D. Recommendation Systems

3. What is the name of the Generative AI model that can generate coherent and context-specific text?

- A. GAN
- B. Transformers
- C. BERT
- D. LLaMA

4. Which type of Generative AI model is capable of generating new images that are similar to a given dataset?

- A. Variational Autoencoder (VAE)
- B. Generative Adversarial Network (GAN)
- C. Recurrent Neural Network (RNN)
- D. Convolutional Neural Network (CNN)

5. What is the term for the process of training a Generative AI model to generate new data that is similar to a given dataset?

- A. Supervised Learning
- B. Unsupervised Learning
- C. Reinforcement Learning
- D. Self-Supervised Learning

6. Which of the following is a challenge associated with Generative AI models?

- A. Overfitting
- B. Underfitting
- C. Mode collapse
- D. All of the above

7. What is the name of the Generative AI model that can generate music that is similar to a given dataset?

- A. Amper Music
- B. AIVA
- C. Jukedek
- D. All of the above

8. Which type of Generative AI model is capable of generating new text that is similar to a given dataset?

- A. Language Model
- B. Text-to-Text Model
- C. Sequence-to-Sequence Model
- D. All of the above

9. What is the term for the process of evaluating the quality of generated data from a Generative AI model?

- A. Inception Score
- B. Frechet Inception Distance
- C. Peak Signal-to-Noise Ratio
- D. Mean Squared Error

10. Which of the following is an application of Generative AI in healthcare?

- A. Disease diagnosis
- B. Medical image analysis
- C. Personalized medicine
- D. Synthetic data generation

11. What is the name of the Generative AI model that can generate videos that are similar to a given dataset?

- A. VideoGAN
- B. VGAN
- C. MoCoGAN
- D. All of the above

12. Which type of Generative AI model is capable of generating new data that is similar to a given dataset, but with some variations?

- A. VAE
- B. GAN
- C. Normalizing Flow
- D. Autoregressive Model

13. What is the term for the process of generating new data that is similar to a given dataset, but with some variations?

- A. Data augmentation
- B. Data generation
- C. Data synthesis
- D. Data manipulation

14. Which of the following is a benefit of using Generative AI models?

- A. Improved accuracy
- B. Increased efficiency
- C. Enhanced creativity
- D. All of the above

15. What is the name of the Generative AI model that can generate 3D models that are similar to a given dataset?

- A. 3D-GAN
- B. Point-GAN
- C. Mesh-GAN
- D. All of the above

16. Which type of Generative AI model is capable of generating new data that is similar to a given dataset, but with some conditional constraints?

- A. Conditional GAN

- B. Conditional VAE
- C. Conditional Normalizing Flow
- D. All of the above

17. What is the term for the process of generating new data that is similar to a given dataset, but with some conditional constraints?

- A. Conditional data generation
- B. Conditional data synthesis
- C. Conditional data augmentation
- D. Conditional data manipulation

18. Which of the following is an application of Generative AI in finance?

- A. Risk analysis
- B. Portfolio optimization
- C. Synthetic data generation
- D. Fraud detection

19. What is the name of the Generative AI model that can generate speech that is similar to a given dataset?

- A. WaveNet
- B. WaveGAN
- C. HiFi-GAN
- D. All of the above

20. Which type of Generative AI model is capable of generating new data that is similar to a given dataset, but with some temporal constraints?

- A. Temporal GAN
- B. Temporal VAE
- C. Temporal Normalizing Flow
- D. All of the above

21. What is the term for the process of generating new data that is similar to a given dataset, but with some temporal constraints?

- A. Temporal data generation
- B. Temporal data synthesis

- C. Temporal data augmentation
- D. Temporal data manipulation

22. Which of the following is a challenge associated with Generative AI models in healthcare?

- A. Data privacy
- B. Model interpretability
- C. Data quality
- D. All of the above

23. What is the name of the Generative AI model that can generate protein sequences that are similar to a given dataset?

- A. ProteinGAN
- B. ProteinVAE
- C. ProteinNF
- D. All of the above

24. Which type of Generative AI model is capable of generating new data that is similar to a given dataset, but with some spatial constraints?

- A. Spatial GAN
- B. Spatial VAE
- C. Spatial Normalizing Flow
- D. All of the above

25. What is the term for the process of generating new data that is similar to a given dataset, but with some spatial constraints?

- A. Spatial data generation
- B. Spatial data synthesis
- C. Spatial data augmentation
- D. Spatial data manipulation

26. Which of the following is an application of Generative AI in education?

- A. Personalized learning
- B. Intelligent tutoring systems
- C. Synthetic data generation
- D. All of the above

27. What is the name of the Generative AI model that can generate chatbots that are similar to a given dataset?

- A. ChatbotGAN
- B. ChatbotVAE
- C. ChatbotNF
- D. All of the above

28. Which type of Generative AI model is capable of generating new data that is similar to a given dataset, but with some multimodal constraints?

- A. Multimodal GAN
- B. Multimodal VAE
- C. Multimodal Normalizing Flow
- D. All of the above

29. What is the term for the process of generating new data that is similar to a given dataset, but with some multimodal constraints?

- A. Multimodal data generation
- B. Multimodal data synthesis
- C. Multimodal data augmentation
- D. Multimodal data manipulation

30. Which of the following is a benefit of using Generative AI models in data augmentation?

- A. Improved model performance
- B. Increased data diversity
- C. Reduced data bias
- D. All of the above

## Answer Key

Q1: B

Q2: C

Q3: D

Q4: B

Q5: B

Q6: D

Q7: D

Q8: D

Q9: A

Q10: D

Q11: D

Q12: C

Q13: C

Q14: D

Q15: D

Q16: D

Q17: B

Q18: C

Q19: D

Q20: D

Q21: B

Q22: D

Q23: D

Q24: D

Q25: B

Q26: D

Q27: D

Q28: D

Q29: B

Q30: D