2 Mark Questions

1. What is ImageNet, and why is it important in deep learning?
2. How does object detection differ from image classification?
3. What is WaveNet, and how does it generate audio?
4. What is the role of Natural Language Processing (NLP) in AI?
5. Explain the working principle of Word2Vec in NLP.
6. What is Joint Detection, and how is it used in machine learning?
7. How is deep learning applied in Bioinformatics?
8. What are the main challenges in face recognition systems?
9. How does scene understanding differ from object detection?
10. What is the significance of gathering image captions in computer vision?

16 MARKS:

1. Explain the architecture and impact of ImageNet in deep learning. How has it contributed to advancements in computer vision?
2. Describe the working of WaveNet and its applications in speech synthesis. How does it differ from traditional audio generation models?
3. Discuss NLP
4. Explain Word2Vec in detail, including its two main models (CBOW and Skip-gram). How does it help in vector representation of words?
5. Describe the role of deep learning in scene understanding. How do neural networks interpret complex scenes and generate meaningful descriptions?