**Question 1: (10 Marks)**

**Define Machine Learning. Why is it needed in modern computing systems? Describe the major types of machine learning with suitable real-life examples.**

*Guidelines for Answer:*

* Definition of ML
* Need for ML in AI systems
* Types: Supervised, Unsupervised, Reinforcement learning
* Example for each type

**Question 2: (15 Marks)**

**Compare and contrast Supervised Learning – Classification, Supervised Learning – Regression, and Neural Networks in terms of their purpose, working principles, and practical applications.**