

**Q.2 Answer the following questions on Advanced Data Science Techniques:**

- (a) Discuss the challenges of deploying machine learning models in production.
- (b) What is transfer learning? How does it benefit model training?
- (c) Explain the use of anomaly detection in fraud detection systems.
- (d) How does reinforcement learning differ from supervised learning?
- (e) Describe how data visualization improves decision-making in businesses.

[15]