UNIT-IV: Quality Management Systems

Elaborate Questions (10 Marks):

- 1. Discuss **Total Quality Management (TQM)** and its importance in pharmaceutical industries [4, 5, 11].
- 2. Explain the concept of **Quality by Design (QbD)**. Discuss its elements and tools in pharmaceutical product development [4, 5, 10].

Notes Questions (5 Marks):

- 1. Explain in brief the concept of **Quality by Design (QbD)** [4, 5, 8, 10].
- 2. Write a note on the Six Sigma concept [4, 8, 13, 15].
- 3. Discuss **Total Quality Management** [4, 5, 11].
- 4. Briefly describe **Quality Risk Management** and give its principle [4, 8, 13].
- 5. What are the ISO 9000 series of quality standards? [4, 9]
- 6. Explain ISO 14000 [4, 11].
- 7. Write a note on Good Laboratory Practices (GLP) [4, 10].

Short Answer Questions (2 Marks):

- 1. What is quality control? [15]
- 2. What is Good Manufacturing Practices (GMP)? [15]
- 3. Define Six Sigma [15].
- 4. What is the Six Sigma Concept? [13, 16]
- 5. Define Quality by Design (QbD) [8, 10].
- 6. Define **Quality Risk Management** and give its principle [8, 13].
- 7. What is **NABL certification**? [13]