

(2½Hrs)

[Total Marks: 60]

N.B:

- 1) All questions are **compulsory**
- 2) **Figures** to the **right** indicates **full** marks
- 3) Draw neat and labelled diagrams wherever necessary

- Q1** Discuss in detail the various parameters to be followed for any analytical method validation **12**
- OR**
- Q1 (a)** In context of GCP guidelines, explain reporting of adverse events. **6**
- (b)** Write a note on the documentation of Good Manufacturing Practices. **6**
- Q2** What is meant by Method Validation? Explain its significance with a note on the regulatory guideline on Method validation. **12**
- OR**
- Q2 (a)** What is qualification? Explain Briefly. **6**
- (b)** Explain Ruggedness and Robustness of an analytical method. **6**
- Q3** Explain the term “BE” and its different BE parameters to evaluate drug. **12**
- OR**
- Q3 (a)** Describe “Drug Dissolution Apparatus” **6**
- (b)** Explain Factors affecting bioavailability **6**
- Q4** With reference to clinical trials explain the following. **12**
- a. Ethics committee
 - b. Informed consent
 - c. Responsibilities of principal investigator
- OR**
- Q4 (a)** Explain audits of GMP compliance. **6**
- (b)** What is the need to have SOP as a part of GLP? **6**
- Q5** Answer the following (any **three**) :- **12**
- i)** GMP audits
 - ii)** IQ, OQ and PQ
 - iii)** Ethics committee in GCP
 - iv)** What is the difference between Document and Record in pharmaceutical industry?
 - v)** LOD and LOQ of analytical Method
 - vi)** Selectivity and specificity of an analytical method.