

(2½ hours)

Total marks: 60

- N.B.:** (1) All questions are **compulsory**.
 (2) **Figures** to the **right** indicate full **marks**.
 (3) Draw **neat** and **labeled diagrams** wherever necessary.

- Q. 1. a. What are the properties of Murchit taila? Describe the process of Murchana of any base oil studied by you. **12**
- OR**
- Q. 1. b. Describe the standard operating procedure of Vati preparation. Add a note on the quality control parameters of final formulation. **12**
- Q. 2. a. Explain the concept of randomization. Add a note on confidence limits and level of significance. **12**
- OR**
- Q. 2. b. Explain the concept of sample size and power. Add a note on power of test and confidence limits. **12**
- Q. 3. a. What are data collection techniques? Comment on significance of data collection techniques. **12**
- OR**
- Q. 3. b. What is SPSS? Discuss use of statistical packages for data analysis. **12**
- Q. 4. a. What is GMP? Discuss the steps involved in documentation of GMP practices. **12**
- OR**
- Q. 4. b. What is GMP? Discuss the steps involved in requirements of GMP implementation. **12**
- Q. 5. Write notes on (**any three**):
- a Shelf life of Unani formulations **4**
 - b Bioanalytical tools for standardization **4**
 - c Normal distribution curve **4**
 - d Z test and its uses **4**
 - e Regulatory Certification of GMP **4**
