

[Time: Two Hours]

[Marks:35]

Please check whether you have got the right question paper.

- N.B: 1. All questions are compulsory.
2. Figures to right side Indicate full marks.

- Q. 1** Answer the following. **07**
- Write benefits offered by community pharmacist to the patients.
 - Explain the role of drug analysis method for detecting non-compliance.
 - Write examples of drugs causing hemolytic anemia as a allergic responses.
 - How does impaired renal function contribute to drug interaction?
 - Enlist various reasons restricting administration of drug in first trimester of pregnancy.
 - Comment on influence of sampling time for effective TDM.
 - Define pharmacovigilance.
- Q. 2** A. Answer **any one** of the following **04**
- Define patient counselling. Explain with examples instructions for administering any two dosage forms.
 - Discuss 3C^s of clinical pharmacy services
- B. Answer the following **03**
- Enlist reasons for non-compliance. Explain role of patient counseling and education to improve compliance.
- Q. 3** A. Answer **any one** of the following **04**
- How does dosage error leads to Adverse drug reactions. Explain role of cohort studies in detecting ADR.
 - Describe role of pharmacist in reporting of Adverse drug reactions.
- B. Answer the following **03**
- Write need for therapeutic drug monitoring.
- Q. 4** A. Answer **any one** of the following **04**
- Write reasons for drug interactions. Explain pharmacodynamic interaction due to alteration of electrolyte level and due to MAO inhibitor.
 - Explain in brief with examples. How self-medication of over the counter product (OTC) contributes to produce potential Drug- drug interactions.
- B. Answer the following **03**
- Define & explain in brief rational use of medication in pediatrics.
- Q. 5** Answer **any one** of the following **04**
- Write different types of clinical trials. Discuss in detail confirmatory clinical trials.
 - Explain cross over design. Write the role and responsibility of institutional review board (IRB) while execution of clinical trials.
- B. Answer the following **03**
- Write a short note on lead optimization in drug development.