

**DIRECTORATE OF HEALTH, MEDICAL SERVICES & MEDICAL EDUCATION,  
GUJARAT STATE  
30<sup>TH</sup> LABORATORY & X-RAY TECHNICIANS' TRAINING COURSES- 2017-18  
Section -II PHARMACOLOGY**

**PAPER – III**

**Total Marks: 50**

**Q.1 Write notes on “ANY FOUR” of the following: (16)**

- ✓ a) In-vitro experiment with its advantages & disadvantages
- b) Liniment
- ✓ c) Physiological Salt Solution
- d) Pharmacodynamics
- ✓ e) Euthanasia
- f) Sources of drugs with suitable examples

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**Q.2 Enumerate different routes of drug administration. Mention advantages and limitations of parenteral route of drug administration. (10)**

**OR**

**Q.2 Classify antiepileptic drugs. Write important therapeutic uses and adverse drug reactions of Phenytoin sodium. (10)**

**Q.3 Match the following: (08)**

|   | “BOX- X” (Drugs)         |       | “BOX- Y” (Pharmacological actions/ use) |
|---|--------------------------|-------|---|
| H | 1 Ibuprofen              | 1 → A | Uterine relaxants (Tocolytics)          |
| F | 2 Chloroquine            | 2 → B | Anti-anxiety                            |
| G | 3 Heparin                | 3 → C | Drug for peptic ulcer                   |
| A | 4 Isoxsuprine/ Ritodrine | 4 → D | Bronchodilator                          |
| T | 5 Procaine               | 5 → E | Anti-malarial                           |
| D | 6 Salbutamol             | 6 → F | Local anesthetic agent                  |
| B | 7 Alprazolam             | 7 → G | Anti-coagulant                          |
| C | 8 Ranitidine             | 8 → H | Analgesic, anti-inflammatory            |

**Q.4 Describe the preparation & set-up for the experiment performed to study the analgesic effect of drugs in rats. (10)**

**Q.5 Write one important therapeutic use and one adverse effect of each of the following: (06)**

- a) Homatropine
- b) Furosamide
- c) Insulin

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