

[LG 128]

APRIL 2015

Sub. Code: 2025

**M.D. DEGREE EXAMINATION  
BRANCH VI – PHARMACOLOGY**

**PAPER IV – APPLIED PHARMACOLOGY & LAWS GOVERNING  
DRUG REGULATIONS**

*Q.P. Code : 202025*

**Time: Three Hours**

**Maximum: 100 marks**

**Answer ALL questions**

**I. Essay: (2 x 10 = 20)**

1. Discuss the pharmacological actions and potential therapeutic uses of melatonin.
2. Indicate the site of action of diuretics and explain how the site and mechanism correlate with clinical use.

**II. Short Questions: (8 x 5 = 40)**

1. Clinical uses of stem cell.
2. Use of PCR in pharmacology.
3. Newer Insulins.
4. Camptothecins as anticancer drugs.
5. Drug abuse in sports.
6. Drugs used in glaucoma.
7. Cross over design drug trials.
8. Mitotic spindle poisons.

**III. Reasoning Out: (4 x 5 = 20)**

1. Bisphosphonates in Osteoporosis.
2. Determining sample size in drug trials.
3. Rectal route of administering drugs.
4. Naphazoline as nasal decongestant.

**IV. Very Short Answers: (10 x 2 = 20)**

1. Essential drugs.
2. Glycosylated hemoglobin.
3. Name two safe antidepressants in pregnancy.
4. Name two ovulation inducing agents.
5. Fetal alcohol syndrome.
6. Dermojet.
7. Polypharmacy.
8. Evidence based medicine.
9. Name two NSAIDs used topically.
10. Eutectic lidocaine / prilocaine mixture.

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