

Q.P.CODE:152-NR

Dr. NTR University of Health Sciences::Vijayawada-520 008
M.D. DEGREE EXAMINATION – MAY, 2017

PHARMACOLOGY

Paper-I : Pharmacology General Principles and Experimental
Pharmacology including Biostatistics and Bio-assay.

Time: 3 Hours

Max. Marks:100

Note: Answer all questions

All questions carry equal marks

Draw neat diagrams wherever necessary

WRITE SHORT ESSAYS ON THE FOLLOWING:

- 1) Mention the various routes of drug administration and their advantages, with examples. Add a brief note on liposome based drug delivery.
- 2) Describe the various pathological states which effect drug action, giving examples.
- 3) Describe the phases of clinical drug trials. Describe the features of an ideal Randomized Clinical trial
- 4) Describe briefly the statistical tests used to compare means and proportions
- 5) Write a brief note on teratogenicity and carcinogenicity of drugs. Briefly describe how drugs are tested for theses effects.
- 6) HPLC (High Performance Liquid Chromatography) and its applications
- 7) Animal use in drug testing
- 8) Define the pharmacokinetic and pharmacodynamic types of drug interactions. Add a brief note on drug interactions with warfarin.
- 9) Define drug bioavailability. Mention the factors which affect drug bioavailability
- 10) Pharmacovigilance
