

**B.Sc.-M.Sc. INTEGRATED PROGRAMME (TOXICOLOGY)
SEMESTER III, ONLINE EXAMINATION 2020
PAPER CODE - BTX-CC08TH**

PAPER TITLE: BASIC PRINCIPLES OF PHARMACOLOGY

Time : Three Hours

Maximum Marks : 75

**Attempt all questions. All parts of a question must be attempted in continuation.
Start answer of a fresh question on a new page. Cite examples and draw labeled
diagrams wherever necessary**

Question No. 1:

Briefly answer the following:

[10 x 1½ = 15]

- Who is the founder of modern pharmacology?
- Urine of pregnant women gives human chorionic gonadotropin (hCG) used for the treatment of infertility. (True or False)
- Define xenobiotics.
- What is Anaesthetics?
- Cinchona bark gives, which is an antimalarial drug.
- What are the two main sites of drug elimination?
- What do you understand by half-life of a drug?
- What is the role of toxicologist in the drug development?
- Most drugs have molecular weights between and.....Daltons
- Write two forces by which drugs interacts with their receptors.

Question No. 2:

Write short notes on any THREE of the following:

[3 x 5 = 15]

- Aims and scope of Pharmacology
- Microbial or plant sources of drugs
- Drug-receptor interactions
- Synthetic and semi-synthetic drugs
- Historical development of the field of Pharmacology

Question No. 3:

Answer any THREE in short:

[3 x 5 = 15]

- Discuss aqueous and lipid diffusion of drugs.
- Describe Schatchard plot
- Discuss double reciprocal or Hill plots.
- How do agonist and antagonist drugs work? Describe with diagram
- Write short note on physical Nature of Drugs.

Question No. 4:

Write shot notes on any THREE of the following:

[3 x 5 = 15]

- a) Fick's Law of Diffusion
- b) Drug Clearance
- c) Volume of distribution
- d) Drug Accumulation
- e) Bioavailability

Question No. 5:

Write shot notes on any THREE of the following:

[3 x 5 = 15]

- a) Classification of drugs based on Chemical Nature
- b) Anticoagulants
- c) Antibiotics
- d) Drug resistance
- e) ACE Inhibitors and Beta Blockers

It should be noted that 40 minutes extra time will be provided to scan your answer sheets, build a PDF and uploaded it.

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