http://www.rgpvonline.com

Total Pages: 4

# Final Year (New) Pharmacy PHARMACOLOGY AND TOXICOLOGY (203)

Time: Three Hours

Maximum Marks: 80

Note: Attempt total six questions. Question No.1 is compulsory. From the remaining questions attempt any five.

1. a) Explain the following terms (Any five)

5

- Therapeutic index
- ii) Idiosyncrasy
  - iii) First Pass Effect
- iv) Antagonism
- v) Agonist
- · vi) Potency
- . vii) Bioavailability
- b) Write the source of the following drugs (Any five)

5

http://www.rgpvonline.com

- · i) Morphine
- ii) Reserpine
- . iii) Chloroquine
- · iv) Tetracycline
- · v) Streptomycin
  - vi) Rifampicin

#### Attempt any two-

2×7

- a) Enlist various routes of administration. Give the advantages and disadvantages of parenteral route.
  - Explain the term pharmacokinetics. Discuss the various pathways of drug metabolism.
- . c) Write short note on:
  - i) Protein Binding
  - ii) Biological Barriers

### Attempt any two-

2×7

- Explain drug to drug interaction. Discuss the pharmacokinetic interactions with suitable example.
- b) Classify general Anaesthetics. Discuss the various stages of general Anaesthesia.
- c) Discuss the pharmacology and adverse drug reaction of morphine.

#### 4. Attempt any two-

2×7

http://www.rgpvonline.com

- a) Differentiate between any two
  - i) Sedative and Hypnotics.
  - ii) Narcotic and Non-Narcotic analgesics.
  - iii) General and local Anaesthetics.
- Classify epilepsy and antiepileptic drugs. Give the pharmacology of phenytoin.
- c) Write a note on (Any one)
  - i) Anti-Parkinsonism drugs
  - ii) Anti-Gouts drugs

Contd....

http://www.rgpvonline.com

٥.				

http://www.rgpvonline.com

5. Attempt any two-

a) Discuss the pharmacology of Adrenaline.

- Discuss the mechanism of action and pharmacological action of Digital is glycoside.
- c) Write a note on any one-
  - Antiarrhythmic drugs.
  - ii) Drugs used in angina pectoris.
- Attempt any four-

4×3½

2×7

Give reasons for the following.

- Sulfonamides are ineffective in the presence of pus.
- · ii) Tetracycline is not given with milk and milk products.
  - iii) Vitamin D is given with calcium.
  - iv) In the treatment of tuberculosis, drugs are always given in combination. http://www.rgpvonline.com
  - v) Adrenaline is given with local anaesthetics.
- Write the category, therapeutic uses and adverse drug reaction of the following (Any 7)
  - i) Verapamil
  - ii) Quinidine
  - iii) Aspirin
    - iv) Phenobarbitone
  - . v) Furosemide
  - vi) Streptomycin
  - vii) Rifampicin
  - viii) Griseofulvin
  - · ix) Chloroquine
    - x) Amantadine

P.T.O.

## 8. Attempt any two -

2×7

http://www.rgpvonline.com

- a) Give the life cycle of malarial parasite.
- b) Give the mechanism of action, therapeutic uses and adverse reaction of the following.
  - i) Gentamycin
  - ii) Penicillin
  - iii) Sulfonamide
  - iv) Chloramphenicol
  - v) Dapsone
  - vi) Pyrimethamine
  - vii) Methotrexate
- c) Write note on:
  - i) Superinfection.
  - ii) Bacterial Resistance.

