

B. Pharm ^{VII} Semester mid sem Examination 2018
Sub Pharmacology ^{III}

Questions with Answers

Q-1 What is antacid? classify antiulcer drugs.

Ans: - These are basic substances which neutralize the gastric acid and raise the pH of gastric contents.

Antiulcer drugs: - The drugs used in the treatment of peptic ulcer are known as antiulcer drugs.

Classification of antiulcer drugs

- (a) H₂ Antihistamines Ex Ranitidine
- (b) proton pump Inhibitors: - omeprazole
- (c) Anticholinergics - propantheline
- (d) prostaglandin Analogs: - misoprostol, Epr酉stol.

Q-2 what is thyroid hormone? classify different anti-thyroid drugs.

Ans: - Thyroid hormones are produced and released by thyroid gland namely T_3 & T_4 , it is composed of iodine.

Classification of anti thyroid drugs

The drugs which are used in the treatment of hyper thyroid are known as anti thyroid drugs.

- (i) Thyroid hormone synthesis inhibitors Ex. Propylthiouracil.
- (ii) Inhibitors of iodine trapping Ex. Thiocyanates
- (iii) Thyroid hormone release inhibitors Ex. Iodine, Iodide of Na^+ and K^+ organic iodide.
- (iv) Thyroid tissue destroying agents. - Ex. ^{131}I , ^{125}I , ^{123}I
(Radioactive Iodine)
- (v) Others: - propranolol, Atenolol

(2)
Rajesh Kumar

Q-3 What is Insulin? Write its classification and mechanism of action.

Ans - Insulin is the hormone which releases from the β cells of pancreas and decreases the blood glucose level.

Classification of Insulin

- (1) Standard Recombinant Insulin (1st)
 - (a) Rapid acting analogues (Actrapid)
 - (b) Intermediate acting (NPH, Insulatard)
 - (c) Premade mixture of (a) and (b) (Mixtard)
- (2) Human Insulin analogues recombinant
 - (a) Very rapid Acting (VRA) EU-Lispro, Aspart, Eglusime
 - (b) Intermediate acting premade mixtures EU-Lispro-protamine + Lispro, Aspart-protamine + Aspart
 - (c) Long acting - eglusime, Doto mix Insulin
 - (d) Ultralong acting insulin - Degludec

Mechanism of action of Insulin.

Ans: - Insulin binds to specific, high-affinity receptors in the cell membrane of most tissues including liver, muscle and adipose.

(3)
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Q-4 Define chemotherapy and classify penicillins with example. Sulphonamides

Ans Chemotherapy is the treatment of systemic infection with a specific drug.

Classification of Sulphonamides

(I) Systemic action

(a) Short-acting En - Sulphadiazine

(b) Intermediate action - Sulphamethoxazole

(c) Long acting En - Sulphadoxime

(II) Local acting ex: - Metemide

(III) Others - Sulphasalazine

Q-5) What is antibiotic? classify penicillins with example.

Ans - substances which are obtained from micro-organisms and kill or inhibit the growth of other microorganism at a very low concentration.

Classification :- (I) Natural penicillin. En - penicillin G, procaine penicillin, etc.

(II) Semi-synthetic penicillins :- Acid inhibitors, penicillinase inhibitors, Broad spectrum, Narrow spectrum.

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