

## Concepts

### Therapeutic action of different classes of drugs

\* Antacids :- Chemical substances which neutralize excess acids in the gastric juice and give relief from acid indigestion.

\* Antihistamines :- Chemical substances which diminish the effects of histamine released in body and prevent allergic reactions.

Ex, Brompheniramine (Dimetapp) and cefenadine (Seldane).

\* Sedatives :- Chemical substances used for the treatment of stress and mild or severe mental diseases.

Ex, Chloridiazepoxide and meprobamate suitable for relieving tensions, etc.

~~Equivalents~~ ~~Controlling~~

\* Analgesics :- Chemical substances used to relieve pain without causing any disturbances in the nervous system like mental confusion, paralysis, etc.

Classification of analgesics :-

Non-narcotic analgesics	Narcotic analgesics
(i) Non-addictive drugs	(i) When administered in medicinal doses, these drugs relieve pain (addictive drugs).
(ii) Ex, Aspirin, Paracetamol	(ii) Ex, Morphine, Heroin.

\* Antibiotics :- Chemical substances produced by microorganisms that kill or prevent the growth of other microbes.

Classification of antibiotics on basis of microbial disease

Bactericidal	Bacteriostatic
Drugs that kills organisms in body.	Drugs that inhibits growth of organisms.
Ex, Penicillin	Ex, Erythromycin

Classification of antibiotics on basis of its spectrum of action.

Broad spectrum antibiotics	Narrow spectrum antibiotics	Limited spectrum antibiotics
Antibiotics which kill wide range of gram +ve and gram -ve bacteria.	Antibiotics which are effective mainly against gram +ve or gram -ve bacteria.	Antibiotics effective against a single organism or disease.
Ex, Ampicillin and Amoxicillin	Ex, Penicillin G	

## Antiseptics

\* Chemical substances that kill or prevent growth of microorganisms, and can be applied on living tissues such as wounds, cuts, etc.

Ex, Dettol, Furacine

## Disinfectants

\* Chemical substances that kill microorganisms but cannot be applied on living tissues such as cuts, wounds.

It can be applied to inanimate objects like floors, drainage system, etc.

Ex, Phenol, ~~iodine~~ Chlorine

## \* Antifertility drugs:-

Chemical substances used to prevent fertilization.

Ex, Norethindrone, Ethynylestradiol (novestral)

\* Soaps :- Sodium or potassium salts of long chain fatty acids like stearic, oleic and palmitic acid.

\* Detergents :- Are sodium salts of long chain of alkyl benzene sulphonic acids or sodium salts of long chain of alkyl hydrogen sulphates.

\* Food additives :- are the substances added to food to preserve its flavour or improve its taste and appearance.