

MLT 2nd

Course Title: General pharmacology I (LAB)

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Section B"

Discuss mechanism of antibiotics according to different targets and classify them one by one

Ans: antibiotics are usually classified based on their structure, Function or spectrum of activity

1 structure- molecular structure

B-lactam - Beta-lactam ring

Aminoglycosides - vary only by side chains attached to basic structure

2. Function - how the drug works, it's mode of action

5 functional groups

these are all components or function necessary for bacterial growth Targets for antibiotics :

- . Inhibitors of cell wall synthesis**
- . Inhibitors of protein synthesis**
- . Inhibitors of membrane function**
- . Anti-metaboliites**
- . Inhibitors of nucleic acid synthesis**

3 spectrum of activity :

- . Narrow spectrum**
- . Broad spectrum**