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Diploma in Pharmacy 2nd Year
Pharmacotherapeutics
Important Questions
Chapter 2 (I) : Anti Microbial Resistance (AMR)

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Chapter 2 (I)

Anti Microbial Resistance (AMR)

IMPORTANT Questions

Q1. What is the Anti-Microbial Resistance (AMR).

Ans.

Anti Microbial Resistance (AMR)

- Introduction Anti microbial resistance is the ability of microorganism (like Bacteria viruses , fungus) to stop in microbial drug (antibiotics , antiviral anti malarial etc.) from working against it . And as a result the standard treatment of chemotherapy became ineffective and thus the infection persist in the body and increases the risk of transmission to other.
- The bacteria become antibiotic resistant and infect the human and animal and this infection is harder to treat than those caused by the non resistant bacteria .
- Antibiotic resistance or anti-microbial resistance leads to higher medical cost , prolong hospital stay , and increase mortality rate.

Q2. Write the Types of Anti-Microbial Resistance (AMR).

Ans. Types of Anti Microbial Resistance

- **Multi drug resistance (MDR)** : It is anti microbial resistance shown by a species of microorganism to at least 1 anti microbial drug in 3 or more anti microbial categories (beta lactam , macrolides , Tetracycline etc.)
- **Extensively drug resistance (XDR)** : The bacteria are classified in this category if they are resistant to all anti microbial agents except in two or less anti microbial categories
- **Pandrug resistance** : The bacteria are classified in this are resistant to all anti microbial agents in all antimicrobial categories.

Q3. What are the Causes of Anti-Microbial Resistance (AMR).

Ans.

Causes of anti microbial resistance

- ✚ It occurs naturally
- ✚ Non resistance bacteria multiply by the billions , a few of them will mutate , some mutation make the bacterium drug resistance
- ✚ Misuse and overuse of antibiotics
- ✚ Not taking complete course of antibiotics
- ✚ Taking antibiotics in low dose than the prescribed dose
- ✚ Taking antibiotics for the infections are commonly self cured

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