

Chemistry in Everyday Life

Question1

The incorrect statement about chloramphenicol is

TG EAPCET 2025 (Online) 2nd May Evening Shift

Options:

A.

it is a broad spectrum antibiotic.

B.

it is a bacteriostatic antibiotic.

C.

it is a bactericidal antibiotic.

D.

it is used to cure pneumonia.

Answer: C

Solution:

The incorrect statement about chloramphenicol is given in option (c). Its correct form is, It is primarily a bacteriostatic antibiotic.

Question2

The number of chlorine (Cl) atoms in the structure of DDT molecule is



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Options:

A.

4

B.

3

C.

2

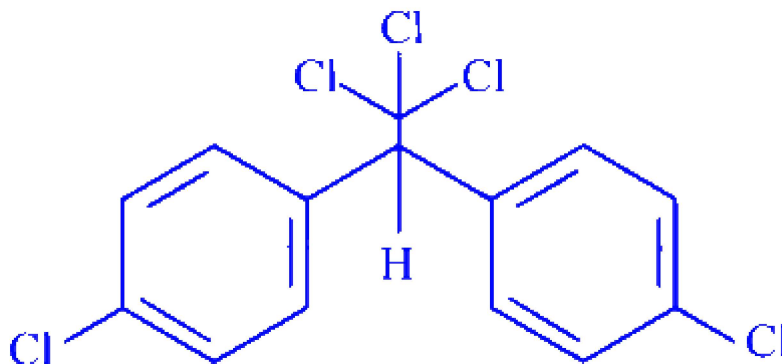
D.

5

Answer: D

Solution:

The structure of DDT is,



Question3

The structure of which artificial sweetener contains aspartic acid and phenylalanine parts?

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Options:

A. *A, B, C*

B. *A, C, D*

C. *A, B, E*

D. *C, D, E*

Answer: B

Solution:

Aspirin primarily possesses the following effects:

Anti-inflammatory: Aspirin is known to reduce inflammation, helping alleviate the symptoms of inflammatory conditions by inhibiting the enzyme cyclooxygenase and thus reducing prostaglandin production. This makes it effective in treating pain associated with inflammation.

Anti-pyretic: It reduces fever by acting on the hypothalamus in the brain, which results in vasodilation and increases heat dissipation from the body, lowering body temperature.

Anti-coagulant: Aspirin inhibits platelet aggregation and is used as an anti-coagulant, helping prevent blood clots by blocking the production of thromboxane, a molecule that facilitates platelet clumping.

Therefore, the correct effects of aspirin are options *A, C, and D*.

Correct Option: B

A, C, D

Question5

Match the following.

List I (Type of drug) List II (Examaple)

A Antacid I Serotonin

B Antihistamine II Seldane

C Tranquiliser III Ranitidine

D Antibiotic IV Chloramphenicol

The correct answer is



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Options:

- A. A-III, B-I, C-IV, D-II
- B. A-II, B-III, C-IV, D-I
- C. A-III, B-II, C-I, D-IV
- D. A-III, B-III, C-I, D-IV

Answer: C

Solution:

The correct match is A-III, B-II, C-I, D-IV.

Ranitidine drug is a type of antacid. Seldane drug used for runny nose is a type of antihistamine .

Serotonin used for sedating is a type of tranquilizer. Chloramphenicol is an antibiotic drugs.

Question6

Among the following the incorrect statement about chloramphenicol is

TG EAPCET 2024 (Online) 9th May Morning Shift

Options:

- A. it is a bacteriostatic drug.
- B. it is a broad spectrum antibiotic.
- C. it is a bactericidal drug.
- D. it is used to treat typhoid.

Answer: C

Solution:



The incorrect statement about chloramphenicol is :

Option C : it is a bactericidal drug.

Chloramphenicol is not typically classified as a bactericidal drug; rather, it is known to be a **bacteriostatic** antibiotic, which means it inhibits the growth and multiplication of bacteria rather than killing them directly.

Here's a brief explanation of the properties of chloramphenicol :

Bacteriostatic Drug : Chloramphenicol works by inhibiting bacterial protein synthesis, thus preventing bacterial growth.

Broad Spectrum Antibiotic : It is effective against a wide range of bacteria, including both Gram-positive and Gram-negative species.

Used to Treat Typhoid : Chloramphenicol is utilized in treating serious infections like typhoid fever caused by *Salmonella typhi*.

The bactericidal property does not fit chloramphenicol as it is primarily known to arrest bacterial progression rather than causing bacterial cell death.

Question7

The chemical name of calgon is

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Options:

- A. sodium hexametaphosphite
- B. potassium hexametaphosphate
- C. calcium hexametaphosphate
- D. sodium hexametaphosphate

Answer: D

Solution:

Calgon is sodium hexametaphosphate. Its formula is $\text{Na}_2[\text{Na}_4(\text{PO}_3)_6]$.



Question8

The medicine used in controlling depression and hypertension is

TS EAMCET 2023 (Online) 12th May Evening Shift

Options:

- A. ranitidine
- B. paracetamol
- C. equanil
- D. chloramphenicol

Answer: C

Solution:

The correct choice is Option C: equanil.

- Equanil (meprobamate) is a mild tranquillizer used in anxiety-associated depression.
 - Ranitidine is an H₂-blocker for peptic ulcers.
 - Paracetamol is an analgesic/antipyretic.
 - Chloramphenicol is a broad-spectrum antibiotic.
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Question9

Which of the following is not correctly matched?

TS EAMCET 2023 (Online) 12th May Morning Shift

Options:

- A. Butylated hydroxy toluene - antioxidant in food
- B. Chloramphenicol - antiseptic
- C. Norethindrone - antifertility drug
- D. Alitame - artificial sweetner



Answer: B

Solution:

Let's review each option:

Butylated hydroxy toluene (BHT) is commonly used as an antioxidant in food.

Chloramphenicol is an antibiotic used to treat bacterial infections, not an antiseptic.

Norethindrone is a synthetic hormone employed as an antifertility drug in contraceptive formulations.

Alitame is indeed an artificial sweetener used in various food products.

Based on these points, the incorrect match is:

Option B: Chloramphenicol - antiseptic.

Thus, Option B is the one that is not correctly matched.
