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CHEMISTRY · JEE MAIN

Chemistry in Everyday Life

Previous Year Questions with answers

77 questions · **77** papers · **2002–2023** · newest paper first

Step-by-step solutions for every question: free in the EdLoop JEE app (Google Play) · pyq.edloop.in

What is in this PDF: every Chemistry in Everyday Life question we hold from past JEE Main and AIEEE papers, with its options and answer. Where an answer comes from a source other than the official final key, it says so next to the answer.

Step-by-step solutions for every question are free in the EdLoop JEE app (Google Play) and on app.edloop.in. More chapters: pyq.edloop.in/free-pdfs/

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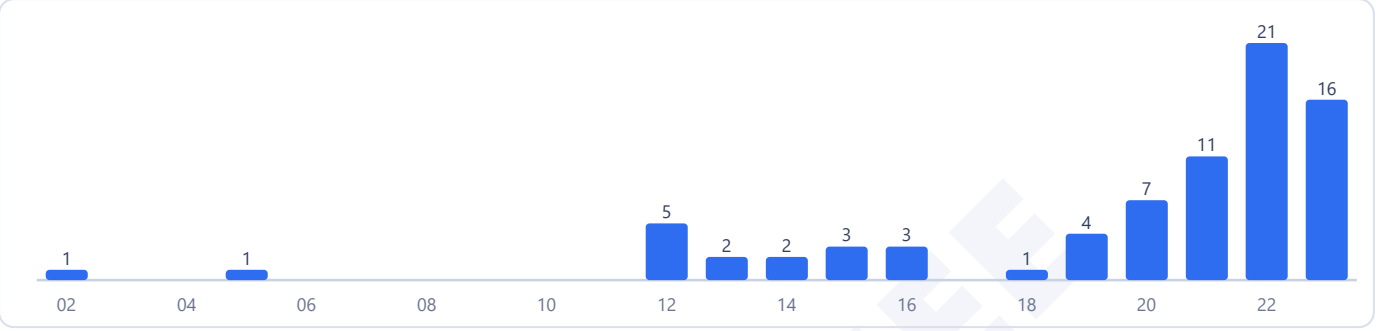
Chapter at a glance

1.3%	77	59 of 162	73 / 4
of Chemistry questions, 2019–2026	questions, 2002–2023	papers asked it, 2019–2026	MCQ / numerical, 2002–2023

Trend. Rising: 0.7 questions per paper in 2021–2023 against 0.3 in 2019–2020.

Questions per year



Counts are the questions we hold: 77 in 77 papers. No question in this chapter was found repeated across papers.

Most-asked topics in this chapter (2002–2023)

Chemistry in Everyday Life — 77

How often it comes up

Chemistry in everyday life covers pharmaceutical drugs and detergents and was formerly in the Class 12 curriculum before being removed in 2024, standing at rank 31 of 31 chapters with a 1.3% share of the chemistry section. Across 2019 to 2026, Chemistry in Everyday Life accounted for 59 questions across 162 test papers, delivering 1.3% of the chemistry section and standing at rank 31 of 31 chapters. During the earlier 2002 to 2018 timeframe, it contributed 18 questions across 38 papers with a 1.3% share. Over the 2024 to 2026 cycle, it recorded 0 questions across 58 papers, capturing a 0.0% share. The overall trajectory has trended down following curriculum reduction.

Because it was deleted from the syllabus, the chapter was not asked in 2024, 2025, or 2026. Across 2019 to 2026, it averaged 0.4 questions per paper, with 4 numerical answer questions recorded.

Most-asked topics

Historical test questions group under one broad topic:

- Chemistry in Everyday Life: Comprises 77 total questions (59 during 2019 to 2026), last tested in 2023. Core themes focused on drug classification (tranquilizers like Equanil, Valium, and veronal; analgesics like aspirin; antibiotics like penicillin and chloramphenicol; antiseptics like Dettol containing chloroxylenol and terpineol), artificial sweetening agents, and cleansing mechanisms of soaps versus synthetic detergents.

What the questions look like

Previous exam questions were purely memory-based matching and classification tasks. A common problem provided a list of medication brand names or active molecules (such as ranitidine, meprobamate, terfenadine, and cimetidine) and asked students to categorize each by pharmacological therapeutic effect (such as antacids versus antihistamines).

Other items evaluated artificial sweeteners (identifying alitame as possessing the highest sweetness relative to cane sugar, or noting that aspartame is unstable at cooking temperatures) and synthetic detergents (such as cetyltrimethylammonium bromide as a cationic detergent).

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How to practise it

Because this unit has been excised from active JEE Main papers, adjust study priorities appropriately:

1. Prioritize active chapters: Concentrate your study hours on active organic units such as Aldehydes, Ketones & Carboxylic Acids, and Biomolecules. 2. Note basic antiseptic terminology: Remembering that Dettol consists of chloroxylenol and terpineol remains helpful general chemistry knowledge. 3. Understand detergent classes: Knowing that cationic detergents are quaternary ammonium salts with germicidal properties provides helpful surface chemistry intuition.

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Q1 JEE Main 2023 · 10 Apr · Shift 2 MCQ

The reaction used for preparation of soap from fat is :

(A) An addition reaction
(B) Reduction reaction
(C) Alkaline hydrolysis reaction
(D) An oxidation reaction

Answer: (C) Alkaline hydrolysis reaction · Key from source paper

Q2 JEE Main 2023 · 8 Apr · Shift 1 MCQ

Match List I with List II :
List I List II
A. Saccharin I. High potency sweetener
B. Aspartame II. First artificial sweetening agent
C. Alitame III. Stable at cooking temperature
D. Sucralose IV. Unstable at cooking temperature
Choose the correct answer from the options given below :

(A) A-IV, B-III, C-I, D-II
(B) A-II, B-III, C-IV, D-I
(C) A-II, B-IV, C-III, D-I
(D) A-II, B-IV, C-I, D-III

Answer: (D) A-II, B-IV, C-I, D-III · Key from source paper

Q3 JEE Main 2023 · 8 Apr · Shift 2 MCQ

The statement/s which are true about antagonists from the following is/are:

A. They bind to the receptor site.

B. Get transferred inside the cell for their action.

C. Inhibit the natural communication of the body.

D. Mimic the natural messenger.

Choose the correct answer from the options given below:

(A) B only
(B) A, C and D
(C) A and C
(D) A and B

Answer: (C) A and C · Key from source paper

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Q4 JEE Main 2023 · 6 Apr · Shift 2 MCQ

Given below are two statements:

Statement I: Morphine is a narcotic analgesic. It helps in relieving pain without producing sleep.

Statement II: Morphine and its derivatives are obtained from opium poppy.

In the light of the above statements, choose the correct answer from the options given below

(A) Both Statement I and Statement II are true
(B) Statement I is true but Statement II is false
(C) Both Statement I and Statement II are false
(D) Statement I is false but Statement II is true

Answer: (D) Statement I is false but Statement II is true · Key from source paper

Q5 JEE Main 2023 · 1 Feb · Shift 1 MCQ

Match List I with List II

List I	List II
(A) Tranquilizers	(I) Anti blood clotting
(B) Aspirin	(II) Salvarsan
(C) Antibiotic	(III) Antidepressant drugs
(D) Antiseptic	(IV) Soframicine

Choose the correct answer from the options given below:

(A) (A)-IV, (B)-II, (C)-I, (D)-III
(B) (A)-II, (B)-I, (C)-III, (D)-IV
(C) (A)-III, (B)-I, (C)-II, (D)-IV
(D) (A)-II, (B)-IV, (C)-I, (D)-III

Answer: (C) (A)-III, (B)-I, (C)-II, (D)-IV · Key from source paper

Q6 JEE Main 2023 · 1 Feb · Shift 2 Numerical

Among the following, the number of tranquilizer/s is/are

A. Chloroliazepoxide
B. Veronal
C. Valium
D. Salvarsan

Numerical value type: the answer is a number.

Answer: 3. · Key from source paper

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Q7 JEE Main 2023 · 31 Jan · Shift 1 MCQ

Which of the following artificial sweeteners has the highest sweetness value in comparison to cane sugar?

(A) Aspartame
(B) Sucralose
(C) Alitame
(D) Saccharin

Answer: (C) Alitame · Key from source paper

Q8 JEE Main 2023 · 31 Jan · Shift 2 MCQ

Which of the following compounds are not used as disinfectants?
A. Chloroxylenol
B. Bithional
C. Veronal
D. Prontosil
E. Terpineol
Choose the correct answer from the options given below:

(A) A, B, E
(B) C, D
(C) A, B
(D) B, D, E

Answer: (B) C, D · Key from source paper

Q9 JEE Main 2023 · 30 Jan · Shift 1 MCQ

Amongst the following compounds, which one is an antacid.

(A) Ranitidine
(B) Meprobamate
(C) Terfenadine
(D) Brompheniramine

Answer: (A) Ranitidine · Key from source paper

Q10 JEE Main 2023 · 30 Jan · Shift 2 MCQ

Given below are two statements: One is labelled as Assertion A and the other labelled as Reason R.
Assertion A: Antihistamines do not affect the secretion of acid in stomach.
Reason R : Antiallergic and antacid drugs work on different receptors.
In the light of the above statements, choose the correct answer from the options given below:

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(A) A is false but R is true
(B) Both A and R are true and R is the correct explanation of A
(C) A is true but R is false
(D) Both A and R are true but R is not the correct explanation of A.

Answer: (B) Both A and R are true and R is the correct explanation of A · Key from source paper

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Q11 JEE Main 2023 · 29 Jan · Shift 1 MCQ

Match List I with List II

List I | Antimicrobials
(A) Narrow Spectrum Antibiotic
(B) Antiseptic
(C) Disinfectants
(D) Broad spectrum antibiotic

List II | Names
(I) Furacin
(II) Sulphur dioxide
(III) Penicillin-G
(IV) Chloramphenicol

(A) (A) - III, (B) - I, (C) - II, (D) - IV
(B) (A) - I, (B) - II, (C) - IV, (D) - III
(C) (A) - II, (B) - I, (C) - IV, (D) - III
(D) (A) - III, (B) - I, (C) - IV, (D) - II

Answer: (A) (A) - III, (B) - I, (C) - II, (D) - IV · Key from source paper

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Q12 JEE Main 2023 · 29 Jan · Shift 2 MCQ

A doctor prescribed the drug Equanil to a patient. The patient was likely to have symptoms of which disease?

(A) Stomach ulcers
(B) Hyperacidity
(C) Anxiety and stress
(D) Depression and hypertension

Answer: (D) Depression and hypertension · Key from source paper

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Q13 JEE Main 2023 · 25 Jan · Shift 1 MCQ

Which of the following statements is incorrect for antibiotics?

(A) An antibiotic must be a product of metabolism.
(B) An antibiotic is a synthetic substance produced as a structural analogue of naturally occurring antibiotic.
(C) An antibiotic should promote the growth or survival of microorganisms.
(D) An antibiotic should be effective in low concentrations.

Answer: (C) An antibiotic should promote the growth or survival of microorganisms. · Key from source paper

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Q14 JEE Main 2023 · 25 Jan · Shift 2 MCQ

Given below are two statements, one is labelled as Assertion A and the other is labelled as Reason R

Assertion A:- Butylated hydroxyl anisole when added to butter increases its shelf life.

Reason R:- Butylated hydroxyl anisole is more reactive towards oxygen than food.

In the light of the above statements, choose the most appropriate answer from the options given below:-

(A) Both A and R are correct and R is the correct explanation of A.
(B) A is correct but R is not correct.
(C) A is not correct but R is correct.
(D) Both A and R are correct but R is NOT the correct explanation of A.

Answer: (A) Both A and R are correct and R is the correct explanation of A. · Key from source paper

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Q15 JEE Main 2023 · 24 Jan · Shift 1 MCQ

Given below are two statements :

Statement I : Noradrenaline is a neurotransmitter.

Statement II : Low level of noradrenaline is not the cause of depression in human.

In the light of the above statements, choose the correct answer from the options given below

(A) Both statement 1 and 2 are correct..
(B) Statement 1 is correct but statement 2 is incorrect
(C) Statement 1 is incorrect but statement 2 is correct
(D) Both statement 1 and 2 are correct

Answer: (B) Statement 1 is correct but statement 2 is incorrect · Key from source paper

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Q16 JEE Main 2023 · 24 Jan · Shift 2 MCQ

Match List I with List II

LIST I Type	LIST II Name
A. Antifertility drug	I. Norethindrone
B. Tranquilizer	II. Meprobamate
C. Antihistamine	III. Seldane

D. Antibiotic IV. Ampicillin

Choose the correct answer from the options given below :

(A) A-II, B-I, C-III, D-IV

(B) A-IV, B-III, C-II, D-I

(C) A-I, B-III, C-II, D-IV

(D) A-I, B-II, C-III, D-IV

Answer: (D) A-I, B-II, C-III, D-IV · Key from source paper

Q17 JEE Main 2022 · 29 Jul · Shift 1 MCQ

Which of the following compounds is an example of hypnotic drug?

(A) Seldane

(B) Amytal

(C) Aspartame

(D) Prontosil

Answer: (B) Amytal · Key from source paper

Q18 JEE Main 2022 · 29 Jul · Shift 2 Numerical

The number of chlorine atoms in bithionol is

Numerical value type: the answer is a number.

Answer: 4. · Key from source paper

Q19 JEE Main 2022 · 28 Jul · Shift 1 MCQ

Statements about Enzyme Inhibitor Drugs are given below :

(A) There are Competitive and Non-competitive inhibitor drugs.

(B) These can bind at the active sites and allosteric sites.

(C) Competitive Drugs are allosteric site blocking drugs.

(D) Non-competitive Drugs are active site blocking drugs.

Choose the correct answer from the options given below

(A) A, D only

(B) A, C only

(C) A, B only

(D) A, B, C only

Answer: (C) A, B only · Key from source paper

Q20 JEE Main 2022 · 28 Jul · Shift 2 MCQ

Two statements in respect of drug-enzyme interaction are given below

Statement I : Action of an enzyme can be blocked only when an inhibitor blocks the active site of the

enzyme.
Statement II : An inhibitor can form a strong covalent bond with the enzyme.
In the light of the above statements. Choose the correct answer from the options given below

(A) Both Statement I and Statement II are true
(B) Both Statement I and Statement II are false
(C) Statement I is true but Statement II is false
(D) Statement I is false but Statement II is true

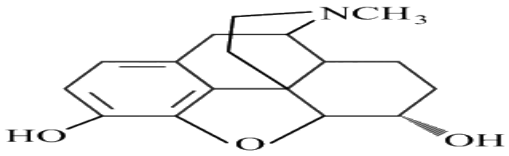
Answer: (D) Statement I is false but Statement II is true · Key from source paper

Q21 JEE Main 2022 · 27 Jul · Shift 1 MCQ

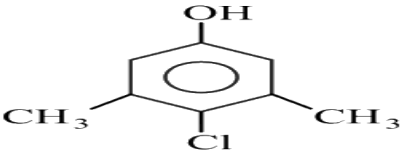
Match List-I with List-II
(see the figure above)
List-I
List-II
I Anti-depressant
II 550 times sweeter than cane sugar
III Narcotic analgesic
IV Antiseptic
Choose the correct answer from the options given below

Q49. Match List-I with List-II

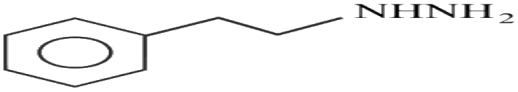
List-I **List-II**

A 

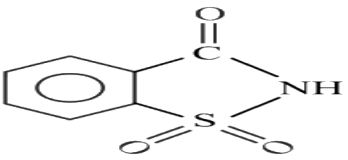
I Anti-depressant

B 

II 550 times sweeter than cane sugar

C 

III Narcotic analgesic

D 

IV Antiseptic

Choose the correct answer from the options given below
(1) A — IV, B — III, C — II, D — I
(2) A — III, B — I, C — II, D — IV
(3) A — III, B — IV, C — I, D — II
(4) A — III, B — I, C — IV, D — II

(A) A – IV, B – III, C – II, D – I
(B) A – III, B – I, C – II, D – IV
(C) A – III, B – IV, C – I, D – II
(D) A – III, B – I, C – IV, D – II

Answer: (C) A – III, B – IV, C – I, D – II · Key from source paper

Q22 JEE Main 2022 · 27 Jul · Shift 2 MCQ

Which of the following enhances the lathering property of soap?

(A) Sodium stearate
(B) Sodium carbonate
(C) Sodium rosinate
(D) Trisodium phosphate

Answer: (C) Sodium rosinate · Key from source paper

Q23 JEE Main 2022 · 26 Jul · Shift 1 MCQ

Stearic acid and polyethylene glycol react to form which one of the following soap/s detergents?

(A) Cationic detergent
(B) Soap
(C) Anionic detergent
(D) Non-ionic detergent

Answer: (D) Non-ionic detergent · Key from source paper

Q24 JEE Main 2022 · 26 Jul · Shift 2 Numerical

How many of the following drugs is/are example(s) of broad spectrum antibiotic? Ofloxacin, Penicillin G, Terpineol, Salvarsan

Numerical value type: the answer is a number.

Answer: 1. · Key from source paper

Q25 JEE Main 2022 · 25 Jul · Shift 1 MCQ

Drugs used to bind to receptors, inhibiting its natural function and blocking a message are called

(A) antagonists.
(B) agonists.
(C) allosteric.
(D) lead compounds.

Answer: (A) antagonists. · Key from source paper

Q26 JEE Main 2022 · 25 Jul · Shift 2 MCQ

Some drugs bind to a site other than, the active site of an enzyme. This site is known as

(A) non-active site
(B) allosteric site
(C) competitive site
(D) therapeutic site

Answer: (B) allosteric site · Key from source paper

Q27 JEE Main 2022 · 29 Jun · Shift 1 MCQ

Which of the following compound does not contain sulphur atom?

(A) Histamine
(B) Cimetidine
(C) Saccharin
(D) Ranitidine

Answer: (A) Histamine · Key from source paper

Q28 JEE Main 2022 · 29 Jun · Shift 2 MCQ

The mixture of chloroxylenol and terpineol is an example of :

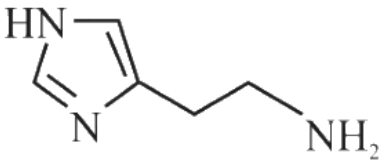
(A) Antiseptic
(B) Pesticide
(C) Disinfectant
(D) narcotic analgesic

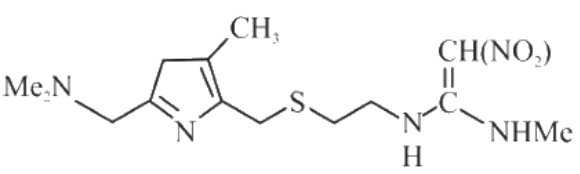
Answer: (A) Antiseptic · Key from source paper

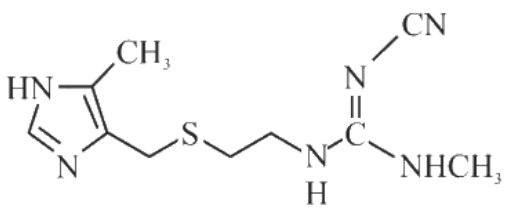
Q29 JEE Main 2022 · 28 Jun · Shift 2 MCQ

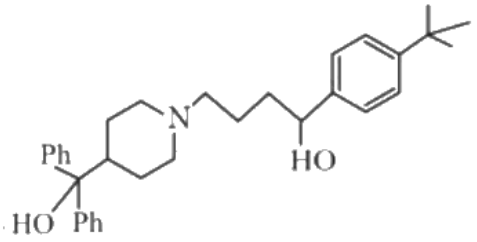
The structure of Tagamet (Cimetidine) is:

Q49. The structure of Tagamet (Cimetidine) is:

(1) 

(2) 

(3) 

(4) 

(A) *see figure*
(B) *see figure*
(C) *see figure*
(D) *see figure*

Answer: (C) · Key from source paper

Q30 JEE Main 2022 · 27 Jun · Shift 1 MCQ

Match List - I with List - II.
List-I
A $CH_3(CH_2)_{15}-\overset{+}{N}(CH_3)_3\ Br^-$
B $CH_3(CH_2)_{11}-C_6H_4-SO_3^-Na^+$
C $C_{17}H_{35}\ COO^-\ Na^+ + Na_2\ CO_3 +$ Rosinate
D $CH_3\ (CH_2)_{16}\ COO\ (CH_2\ CH_2\ O)_n\ CH_2\ CH_2\ OH$
List-II
I Dishwashing powder
II Toothpaste
III Laundry soap
IV Hair conditioner
Choose the correct answer from the options given below

(A) (A) – (IV), (B) – (II), (C) – (III), (D) – (I)
(B) (A) – (III), (B) – (II), (C) – (IV), (D) – (I)
(C) (A) – (IV), (B) – (III), (C) – (II), (D) – (I)
(D) (A) – (II), (B) – (IV), (C) – (I), (D) – (III)

Answer: (A) (A) – (IV), (B) – (II), (C) – (III), (D) – (I) · Key from source paper

Q31 JEE Main 2022 · 27 Jun · Shift 2 MCQ

Match List-I with List-II
List-I
(A) Antipyretic
(B) Analgesic
(C) Tranquilizer
(D) Antacid
List-II
(I) Reduces pain
(II) Reduces stress
(III) Reduces fever
(IV) Reduces acidity(stomach)
Choose the correct answer from the options given below

(A) A – III, B – I, C – II, D – IV
(B) A – III, B – I, C – IV, D – II
(C) A – I, B – IV, C – II, D – III
(D) A – I, B – III, C – II, D – IV

Answer: (A) A – III, B – I, C – II, D – IV · Key from source paper

Q32 JEE Main 2022 · 26 Jun · Shift 1 MCQ

A chemical which stimulates the secretion of pepsin is

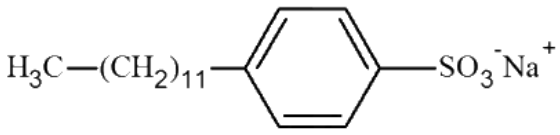
(A) Histamine
(B) Cimetidine
(C) Zantac
(D) Anti histamine

Answer: (A) Histamine · Key from source paper

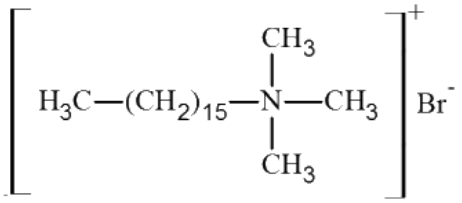
Q33 JEE Main 2022 · 26 Jun · Shift 2 MCQ

Which of the following is NOT an example of synthetic detergent?

Q49. Which of the following is NOT an example of synthetic detergent?

(1) 

(2) $CH_3 - (CH_2)_{16} - COO^- Na^+$

(3) 

(4) $CH_3\,(CH_2)_{16}\,COO\,(CH_2\,CH_2\,O)_n\,CH_2\,CH_2\,OH$

(A) *see figure*
(B) $CH_3 - (CH_2)_{16} - COO^-Na^+$
(C) *see figure*
(D) $CH_3(CH_2)_{16}COO(CH_2CH_2O)_nCH_2CH_2OH$

Answer: (B) $CH_3 - (CH_2)_{16} - COO^-Na^+$ · Key from source paper

Q34 JEE Main 2022 · 25 Jun · Shift 1 MCQ

Which one of the following is an example of artificial sweetner?

(A) Bithional
(B) Alitame
(C) Lactose
(D) Salvarsan

Answer: (B) Alitame · Key from source paper

Q35 JEE Main 2022 · 25 Jun · Shift 2 MCQ

An antiseptic dettol is a mixture of two compounds 'A' and 'B' where A has 6π electrons and B has 2π electrons. What is B?

(A) Bithional
(B) Terpineol
(C) Chlorophenol
(D) Chloroxyenol

Answer: (B) Terpineol · Key from source paper

Q36 JEE Main 2022 · 24 Jun · Shift 1 MCQ

Which of the following is not a broad spectrum antibiotic?

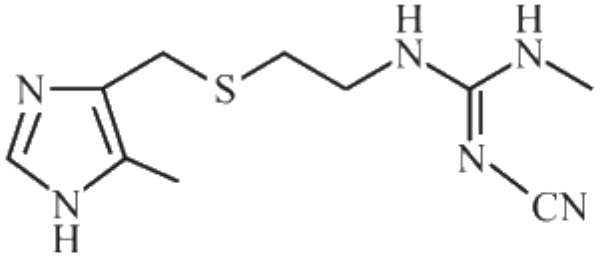
(A) Vancomycin
(B) Penicillin G
(C) Ofloxacin
(D) Ampicillin

Answer: (B) Penicillin G · Key from source paper

Q37 JEE Main 2022 · 24 Jun · Shift 2 MCQ

The structure shown below is of which well-known drug molecule?
(see the figure above)

Q49. The structure shown below is of which well-known drug molecule?



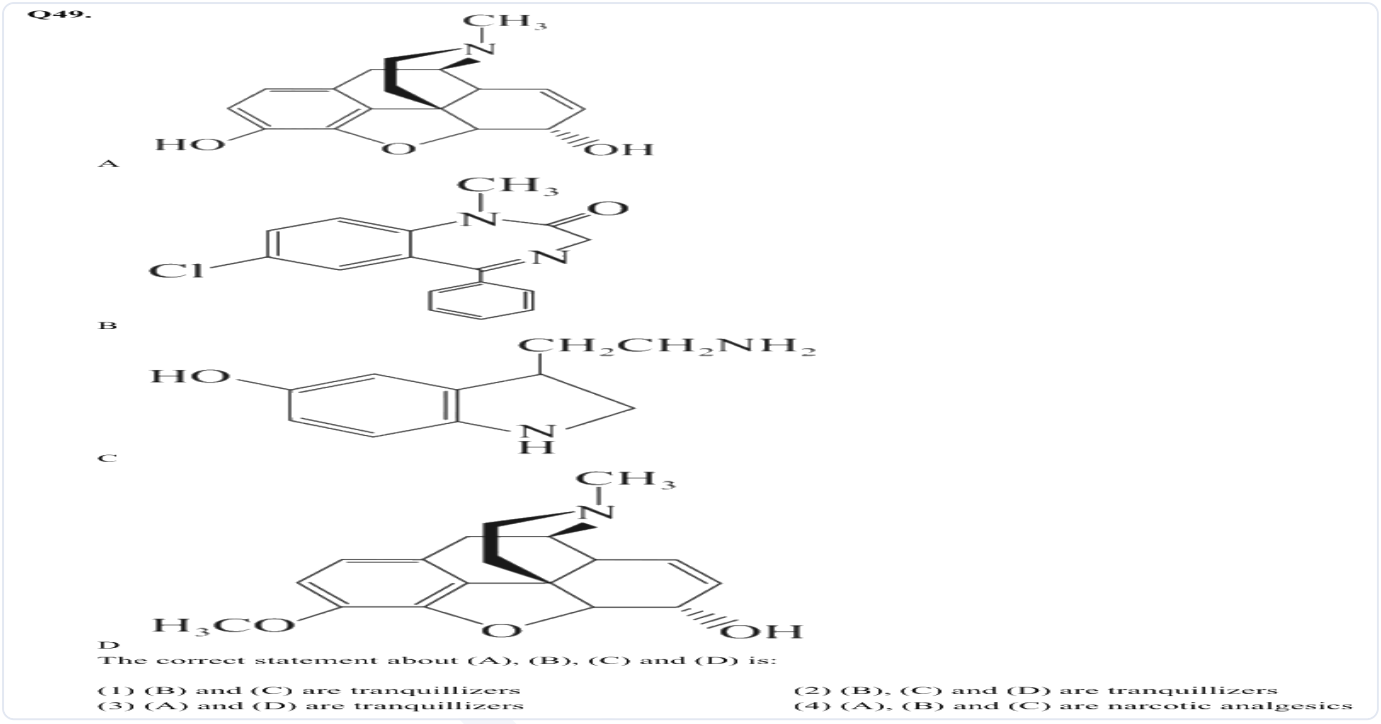
(1) Codeine
(2) Morphine
(3) Ranitidine
(4) Cimetidine

(A) Codeine
(B) Morphine
(C) Ranitidine
(D) Cimetidine

Answer: (D) Cimetidine · Key from source paper

Q38 JEE Main 2021 · 27 Aug · Shift 1 MCQ

see figure



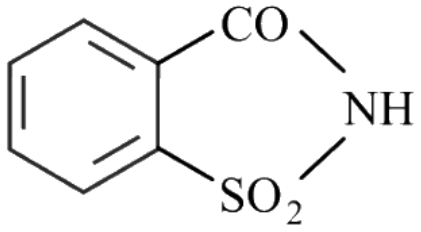
(A) (B) and (C) are tranquillizers
(B) (B), (C), (D) are tranquillizers
(C) (A) and (D) are tranquillizers
(D) (A), (B) and (C) are narcotic analgesics

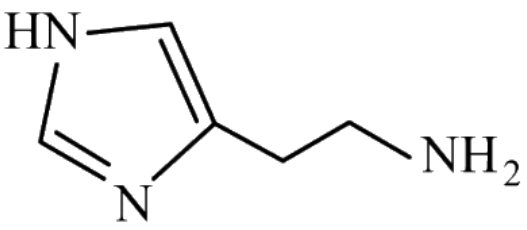
Answer: (A) (B) and (C) are tranquillizers · Key from source paper

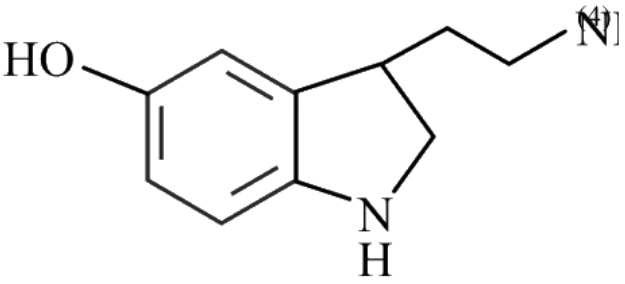
Q39 JEE Main 2021 · 27 Aug · Shift 2 MCQ

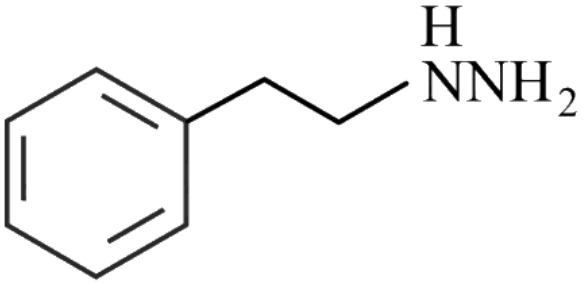
Which one of the following chemicals is responsible for the production of HCl in the stomach leading to irritation and pain?
(see the figure above)

Q48. Which one of the following chemicals is responsible for the production of HCl in the stomach leading to irritation and pain?

(1) 

(2) 

(3) 

(4) 

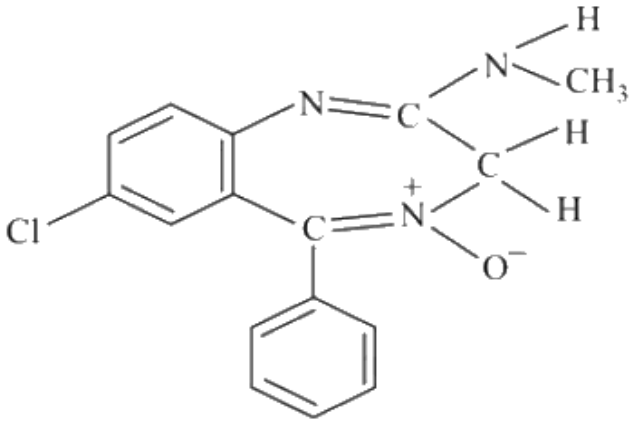
(A) *see figure*
(B) *see figure*
(C) *see figure*
(D) *see figure*

Answer: (B) · Key from source paper

Q40 JEE Main 2021 · 26 Aug · Shift 2 MCQ

see figure

Q31.



Chlordiazepoxide

The class of drug to which chlordiazepoxide with above structure belongs is :

(1) Analgesic
(2) Tranquillizer
(3) Antacid
(4) Antibiotic

(A) Analgesic
(B) Tranquillizer
(C) Antacid
(D) Antibiotic

Answer: (B) Tranquillizer · Key from source paper

Q41 JEE Main 2021 · 27 Jul · Shift 1 MCQ

List –I (Drug): (a) Furacin; (b) Arsphenamine; (c) Dimetone; (d) Valium
List– II (Class of Drug): (i) Antibiotic; (ii) Tranquilizers; (iii) Antiseptic; (iv) Synthetic antihistamines
Choose the most appropriate match :

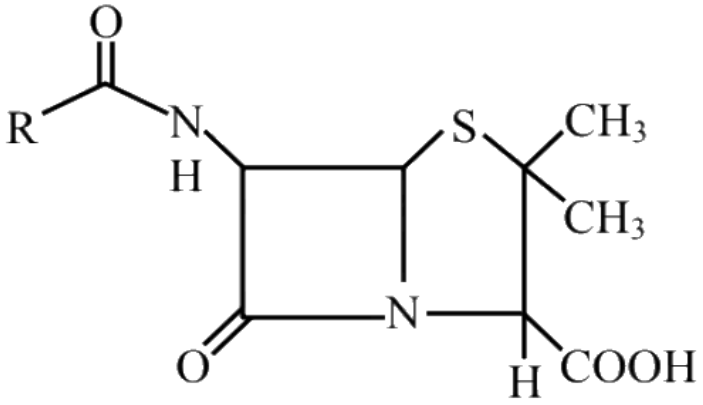
(A) (a) – (i), (b) – (iii), (c) – (iv), (d) – (ii)
(B) (a) – (iii), (b) – (iv), (c) – (ii), (d) – (i)
(C) (a) – (ii), (b) – (i), (c) – (iii), (d) – (iv)
(D) (a) – (iii), (b) – (i), (c) – (iv), (d) – (ii)

Answer: (D) (a) – (iii), (b) – (i), (c) – (iv), (d) – (ii) · Key from source paper

Q42 JEE Main 2021 · 27 Jul · Shift 2 MCQ

Given below are two statements :
Statement I : Penicillin is a bacteriostatic type antibiotic.
Statement II : The general structure of Penicillin is:
(see the figure above)
Choose the correct option :

Q48. Given below are two statements :
Statement I : Penicillin is a bacteriostatic type antibiotic.
Statement II : The general structure of Penicillin is:



Choose the correct option :
(1) Both statement I and statement II are false
(2) Statement I is incorrect but statement II is true
(3) Both statement I and statement II are true
(4) Statement I is correct but statement II is false

(A) Both statement I and statement II are false
(B) Statement I is incorrect but statement II is true
(C) Both statement I and statement II are true
(D) Statement I is correct but statement II is false

Answer: (B) Statement I is incorrect but statement II is true · Key from source paper

Q43 JEE Main 2021 · 18 Mar · Shift 1 MCQ

Match the list–I with list– II
List–I (Class of Drug)
List– II (Example)
(a) Antacid (i) Novestrol
(b) Artificial sweetener (ii) Cimetidine
(c) Antifertility (iii) Valium
(d) Tranquilizers (iv) Alitame

(A) a – ii, b – iv, c – i, d – iii
(B) a – iv, b – i, c – ii, d – iii
(C) a – iv, b – iii, c – i, d – ii
(D) a – ii, b – iv, c – iii, d – i

Answer: (A) a – ii, b – iv, c – i, d – iii · Key from source paper

Q44 JEE Main 2021 · 18 Mar · Shift 2 MCQ

Match List - I with List - II :
List-I (Class of Chemicals)
List-II (Example)
(a) Antifertility drug (i) Meprobamate
(b) Antibiotic (ii) Alitame
(c) Tranquilizer (iii) Norethindrone
(d) Artificial Sweetener (iv) Salvarsan

(A) (a) – (ii), (b) – (iii), (c) – (iv), (d) – (i)
(B) (a) – (iv), (b) – (iii), (c) – (ii), (d) – (i)
(C) (a) – (iii), (b) – (iv), (c) – (i), (d) – (ii)
(D) (a) – (ii), (b) – (iv), (c) – (i), (d) – (iii)

Answer: (C) (a) – (iii), (b) – (iv), (c) – (i), (d) – (ii) · Key from source paper

Q45 JEE Main 2021 · 17 Mar · Shift 1 MCQ

With respect to drug-enzyme interaction, identify the wrong statement:

(A) Non-Competitive inhibitor binds to the allosteric site
(B) Allosteric inhibitor changes the enzyme's active site
(C) Allosteric inhibitor competes with the enzyme's active site
(D) Competitive inhibitor binds to the enzyme's active site

Answer: (C) Allosteric inhibitor competes with the enzyme's active site · Key from source paper

Q46 JEE Main 2021 · 17 Mar · Shift 2 MCQ

Match List-I with List-II :
List-I Chemical Compound : a Sucralose, b Glyceryl ester of stearic acid, c Sodium benzoate, d Bithional
List-II Used as : i Synthetic detergent, ii Artificial sweetener, iii Antiseptic, iv Food preservative
Choose the correct match :

(A) (a) – (iv), (b) – (iii), (c) – (ii), (d) – (i)
(B) (a) – (ii), (b) – (i), (c) – (iv), (d) – (iii)
(C) (a) – (iii), (b) – (ii), (c) – (iv), (d) – (i)
(D) (a) – (i), (b) – (ii), (c) – (iv), (d) – (iii)

Answer: (B) (a) – (ii), (b) – (i), (c) – (iv), (d) – (iii) · Key from source paper

Q47 JEE Main 2021 · 16 Mar · Shift 1 MCQ

The functions of antihistamine are :

(A) Antiallergic and Analgesic
(B) Antacid and Antiallergic
(C) Analgesic and antacid
(D) Antiallergic and antidepressant

Answer: (B) Antacid and Antiallergic · Key from source paper

Q48 JEE Main 2021 · 24 Feb · Shift 2 MCQ

Match List - I with List - II.
List-I
(a) Valium
(b) Morphine
(c) Norethindrone
(d) Vitamin B_{12}
List-II
(i) Antifertility drug
(ii) Pernicious anaemia
(iii) Analgesic

(iv) Tranquilizer

Choose the correct answer from the options given below:

(A) (a)-(iv), (b)-(iii), (c)-(ii), (d)-(i)

(B) (a)-(ii), (b)-(iv), (c)-(iii), (d)-(i)

(C) (a)-(i), (b)-(iii), (c)-(iv), (d)-(ii)

(D) (a)-(iv), (b)-(iii), (c)-(i), (d)-(ii)

Answer: (D) (a)-(iv), (b)-(iii), (c)-(i), (d)-(ii) · Key from source paper

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Q49 JEE Main 2020 · 5 Sep · Shift 1 MCQ

If a person is suffering from the deficiency of nor-adrenaline, what kind of drug can be suggested?

(A) Anti-inflammatory

(B) Antidepressant

(C) Antihistamine

(D) Analgesic

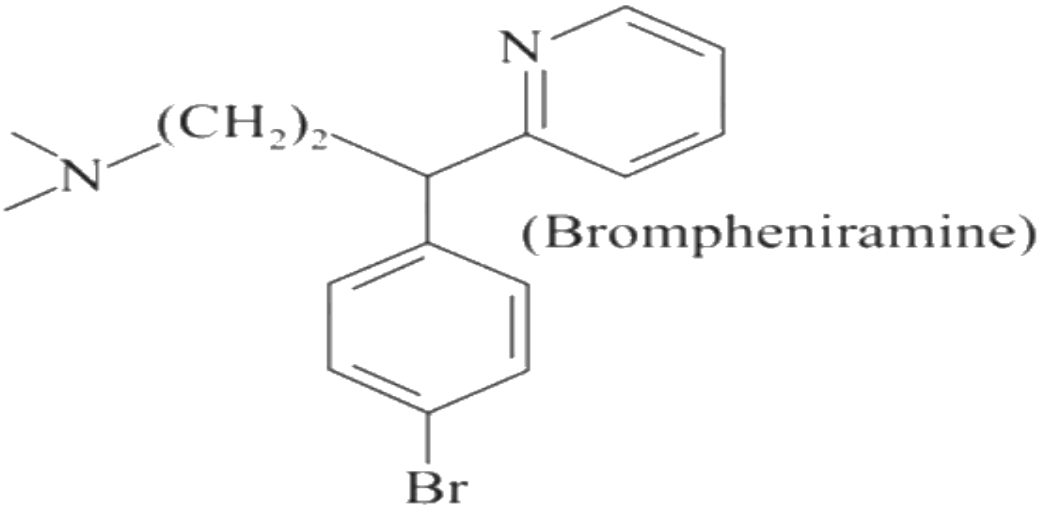
Answer: (B) Antidepressant · Key from source paper

Q50 JEE Main 2020 · 5 Sep · Shift 2 MCQ

The following molecule acts as an :

(see the figure above)

Q45. The following molecule acts as an :



(Brompheniramine)

(1) Antiseptic

(2) Anti–depressant

(3) Anti–bacterial

(4) Anti–histamine

(A) Antiseptic
(B) Anti–depressant
(C) Anti–bacterial
(D) Anti–histamine

Answer: (D) Anti–histamine · Key from source paper

Q51 JEE Main 2020 · 4 Sep · Shift 2 MCQ

The mechanism of action of "Terfenadine" (Seldane) is :

(A) Activates the histamine receptor
(B) Inhibits the secretion of histamine
(C) Helps in the secretion of histamine
(D) Inhibits the action of histamine receptor

Answer: (D) Inhibits the action of histamine receptor · Key from source paper

Q52 JEE Main 2020 · 3 Sep · Shift 1 MCQ

The antifertility drug "Novestrol" can react with :

(A) $ZnCl_2$ / HCl; $FeCl_3$; Alcoholic HCN
(B) Br_2 / water, $ZnCl_2$ / HCl; $FeCl_3$
(C) Alcoholic HCN; NaOCl; $ZnCl_2$ / HCl
(D) Br_2 / water, $ZnCl_2$ / HCl; NaOCl

Answer: (B) Br_2 / water, $ZnCl_2$ / HCl; $FeCl_3$ · Key from source paper

Q53 JEE Main 2020 · 3 Sep · Shift 2 MCQ

Match the following drugs with their therapeutic actions:
(i) Ranitidine
(ii) Nardil (Phenelzine)
(iii) Chloramphenicol
(iv) Dimetane (Brompheniramine)
(a) Antidepressant
(b) Antibiotic
(c) Antihistamine
(d) Antacid
(e) Analgesic

(A) (i)-(a); (ii)-(c); (iii)-(b); (iv)-(e);
(B) (i)-(d); (ii)-(a); (iii)-(b); (iv)-(c);
(C) (i)-(e); (ii)-(a); (iii)-(c); (iv)-(d);
(D) (i)-(d); (ii)-(c); (iii)-(a); (iv)-(e);

Answer: (B) (i)-(d); (ii)-(a); (iii)-(b); (iv)-(c); · Key from source paper

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Q54 JEE Main 2020 · 9 Jan · Shift 1 MCQ

A chemist has 4 samples of artificial sweetener A, B, C and D . To identify these samples, he performed certain experiments and noted the following observations:
(i) A and D both form blue-violet colour with ninhydrin.
(ii) Lassaigne extract of C gives positive $AgNO_3$ test and negative $Fe_4[Fe(CN)_6]_3$ test.
(iii) Lassaigne extract of B and D gives positive sodium nitroprusside test.
Based on these observations which option is correct?

(A) A : Aspartame; B : Saccharin; C : Sucralose; D : Alitame
(B) A : Alitame; B : Saccharin; C : Aspartame; D : Sucralose
(C) A : Saccharin; B : Alitame; C : Sucralose; D : Aspartame
(D) A : Aspartame; B : Alitame; C : Saccharin; D : Sucralose

Answer: (A) A : Aspartame; B : Saccharin; C : Sucralose; D : Alitame · Key from source paper

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Q55 JEE Main 2020 · 7 Jan · Shift 2 Numerical

The number of sp^2 hybridised carbons present in "Aspartame" is

Numerical value type: the answer is a number.

Answer: 9. · Key from source paper

Q56 JEE Main 2019 · 9 Apr · Shift 2 MCQ

Noradrenaline is a/an

(A) Antihistamine
(B) Neurotransmitter
(C) Antacid
(D) Antidepressant

Answer: (B) Neurotransmitter · Key from source paper

Q57 JEE Main 2019 · 11 Jan · Shift 1 MCQ

The correct match between item (I) and item (II) is :
Item - I
(A) Norethindrone
(B) Ofloxacin

(C) Equanil

Item - II

(P) Antibiotic

(Q) Antifertility

(R) Hypertension

(S) Analgesics

(A) (A) → (Q); (B) → (R); (C) → (S)

(B) (A) → (Q); (B) → (P); (C) → (R)

(C) (A) → (R); (B) → (P); (C) → (S)

(D) (A) → (R); (B) → (P); (C) → (R)

Answer: (B) (A) → (Q); (B) → (P); (C) → (R) · Key from source paper

Q58 JEE Main 2019 · 11 Jan · Shift 2 MCQ

see figure

Q59.

	Item I		Item II
(A)	Allosteric effect	(P)	Molecule binding to the active site of enzyme
(B)	Competitive inhibitor	(Q)	Molecule crucial for communication in the body
(C)	Receptor	(R)	Molecule binding to a site other than the active site of enzyme
(D)	Poison	(S)	Molecule binding to the enzyme covalently

The correct match between Item I and Item II is:

(1) (A) → (R); (B) → (P); (C) → (Q); (D) → (S)

(2) (A) → (P); (B) → (R); (C) → (Q); (D) → (S)

(3) (A) → (R); (B) → (P); (C) → (S); (D) → (Q)

(4) (A) → (P); (B) → (R); (C) → (S); (D) → (Q)

(A) (A) → (R); (B) → (P); (C) → (Q); (D) → (S)

(B) (A) → (P); (B) → (R); (C) → (Q); (D) → (S)

(C) (A) → (R); (B) → (P); (C) → (S); (D) → (Q)

(D) (A) → (P); (B) → (R); (C) → (S); (D) → (Q)

Answer: (A) (A) → (R); (B) → (P); (C) → (Q); (D) → (S) · Key from source paper

Q59 JEE Main 2019 · 9 Jan · Shift 1 MCQ

The correct match between column-I and column-II is

Column-I (drug)

(A) Chloroxylenol

(B) Norethindrone

(C) Sulphapyridine

(D) Penicillin

Column-II (test)

(P) Carbylamine test
(Q) Sodium hydrogen carbonate test
(R) Ferric chloride test
(S) Baeyer's test

(A) $A \to R, B \to P, C \to S, D \to Q$
(B) $A \to Q, B \to S, C \to P, D \to R$
(C) $A \to Q, B \to P, C \to S, D \to R$
(D) $A \to R, B \to S, C \to P, D \to Q$

Answer: (D) $A \to R, B \to S, C \to P, D \to Q$ · Key from source paper

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Q60 JEE Main 2018 · 16 Apr · Online MCQ

The correct match between items of List-I and List-II is:
List -I
(A) Phenelzine
(B) Chloroxylenol
(C) Uracil
(D) Ranitidine
List - II
(P) Pyrimidine
(Q) Furan
(R) Hydrazine
(S) Phenol

(A) (A) – (S), (B) – (R), (C) – (Q), (D) – (P)
(B) (A) – (R), (B) – (S), (C) – (P), (D) – (Q)
(C) (A) – (R), (B) – (S), (C) – (Q), (D) – (P)
(D) (A) – (S), (B) – (R), (C) – (P), (D) – (Q)

Answer: (B) (A) – (R), (B) – (S), (C) – (P), (D) – (Q) · Key from source paper

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Q61 JEE Main 2016 · 10 Apr · Online MCQ

Which of the following is a bactericidal antibiotic?

(A) Ofloxacin
(B) Tetracycline
(C) Chloramphenicol
(D) Erythromycin

Answer: (A) Ofloxacin · Key from source paper

Q62 JEE Main 2016 · 9 Apr · Online MCQ

The artificial sweetener that has the highest sweetness value in comparison to cane sugar is:

(A) Sucralose
(B) Aspartame
(C) Saccharin
(D) Alitame

Answer: (D) Alitame · Key from source paper

Q63 JEE Main 2016 · 3 Apr · Offline MCQ

Which of the following is an anionic detergent?

(A) Cetyltrimethyl ammonium bromide
(B) Glyceryl oleate
(C) hexadecyltrimethyl ammonium bromide
(D) Sodium lauryl sulphate

Answer: (D) Sodium lauryl sulphate · Key from source paper

Q64 JEE Main 2015 · 11 Apr · Online MCQ

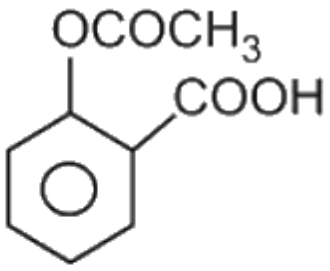
Which artificial sweetener contains chlorine?

(A) Sucralose
(B) Alitame
(C) Saccharin
(D) Aspartame

Answer: (A) Sucralose · Key from source paper

Q65 JEE Main 2015 · 10 Apr · Online MCQ

see figure

Q59. 

is used as:

(1) Antacid
(2) Insecticide
(3) Antihistamine
(4) Analgesic

(A) Antacid
(B) Insecticide
(C) Antihistamine
(D) Analgesic

Answer: (D) Analgesic · Key from source paper

Q66 JEE Main 2015 · 4 Apr · Offline MCQ

Which of the following compounds is not an antacid?

(A) Ranitidine
(B) Aluminium hydroxide
(C) Cimetidine
(D) Phenelzine

Answer: (D) Phenelzine · Key from source paper

Q67 JEE Main 2014 · 12 Apr · Online MCQ

Aminoglycosides are usually used as:

(A) antibiotic
(B) analgesic
(C) hypnotic
(D) antifertility

Answer: (A) antibiotic · Key from source paper

Q68 JEE Main 2014 · 11 Apr · Online MCQ

Which one of the following is used as Antihistamine?

(A) Omeprazole
(B) Chloranphenicol
(C) Diphenhydramine
(D) Norethindrone

Answer: (C) Diphenhydramine · Key from source paper

Q69 JEE Main 2013 · 23 Apr · Online MCQ

H_1 – Receptor antagonists is a term associated with :

(A) Antiseptics
(B) Antihistamins
(C) Antacids
(D) Analgesics

Answer: (B) Antihistamins · Key from source paper

Q70 JEE Main 2013 · 22 Apr · Online MCQ

Which of the following statements about aspirin is not true?

(A) It is effective in relieving pain.
(B) It is a neurologically active drug.
(C) It has antiblood clotting action.
(D) It belongs to narcotic analgesics.

Answer: (D) It belongs to narcotic analgesics. · Key from source paper

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Q71 AIEEE 2012 · 26 May · Online MCQ

Sulphonamides act as

(A) Antiseptic
(B) Analgesic
(C) Antimicrobials
(D) Antipyretic

Answer: (C) Antimicrobials · Key from source paper

Q72 AIEEE 2012 · 19 May · Online MCQ

Aspirin can be prepared by the reaction of

(A) Salicyldehyde with acetic anhydride in presence of H_2SO_4
(B) Salicylic acid with methanol in presence of H_2SO_4
(C) Salicylic acid with acetic anhydride in presence of H_2SO_4
(D) Cinnamic acid with acetic anhydride in presence of H_2SO_4

Answer: (C) Salicylic acid with acetic anhydride in presence of H_2SO_4 · Key from source paper

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Q73 AIEEE 2012 · 12 May · Online MCQ

Chemically heroin is

(A) morphine monoacetate
(B) morphine dibenzoate
(C) morphine diacetate
(D) morphine monobenzoate

Answer: (C) morphine diacetate · Key from source paper

Q74 AIEEE 2012 · 7 May · Online MCQ

Which one of the following compounds is an antifertility drug?

(A) Aspirin
(B) Chloromycetin
(C) Saheli
(D) Penicillin

Answer: (C) Saheli · Key from source paper

Q75 AIEEE 2012 · Offline MCQ

Aspirin is known as:

(A) Acetyl salicylic acid
(B) Phenyl salicylate
(C) Acetyl salicylate
(D) Methyl salicylic acid

Answer: (A) Acetyl salicylic acid · Key from source paper

Q76 AIEEE 2005 MCQ

Which one of the following types of drugs reduces fever?

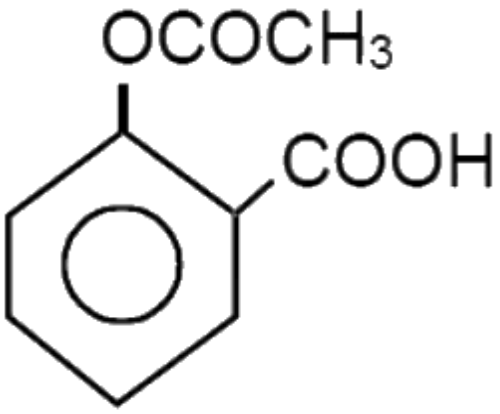
(A) Analgesic
(B) Antipyretic
(C) Antibiotic
(D) Tranquiliser

Answer: (B) Antipyretic · Key from source paper

Q77 AIEEE 2002 MCQ

see figure

Q149.



The compound

is used as

(1) antiseptic

(2) antibiotic

(3) analgesic

(4) pesticide

(A) antiseptic

(B) antibiotic

(C) analgesic

(D) pesticide

Answer: (C) analgesic · Key from source paper

EdLoop JEE