

Questions

MathonGo

Q1 - 24 June - Shift 1

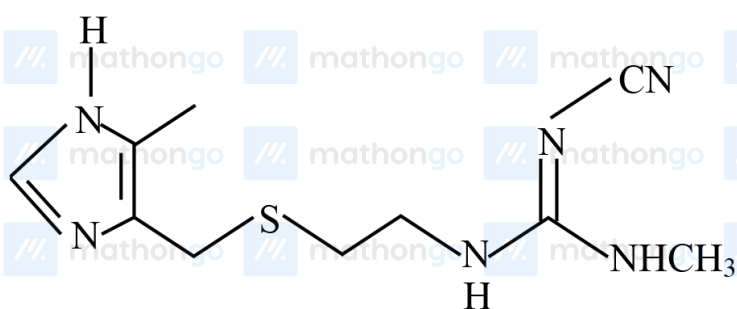
Which of the following is not a broad spectrum antibiotic?

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

Space for your notes:

Q2 - 24 June - Shift 2

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



- (A) Ranitidine (B) Seldane
(C) Cimetidine (D) Codeine

Space for your notes:

Q3 - 25 June - Shift 1

Using very little soap while washing clothes, does not serve the purpose of cleaning of clothes because

- (A) soap particles remain floating in water as ions
(B) the hydrophobic part of soap is not able to take away grease
(C) the micelles are not formed due to concentration of soap, below its CMC value
(D) colloidal structure of soap in water is completely disturbed.

Space for your notes:

Q4 - 25 June - Shift 1

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

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

Space for your notes:

Q5 - 25 June - Shift 2

Match List I with List II.

List I

A. Zymase

B. Diastase

C. Urease

D. Pepsin

List II

I. Stomach

II. Yeast

III. Malt

IV. Soyabean

Space for your notes:

Choose the correct answer from the options given below:

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

Q6 - 25 June - Shift 2

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) Bithionol
(B) Terpeneol
(C) Chloroxylenol
(D) Chloramphenicol

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Q7 - 26 June - Shift 1

A chemical which stimulates the secretion of pepsin is :

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

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Q8 - 26 June - Shift 2

The measured BOD values for four different water samples (A-D) are as follows:

A = 3 ppm: B=18 ppm: C=21 ppm: D=4 ppm. The

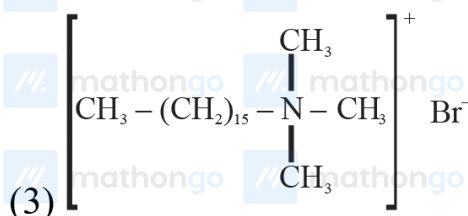
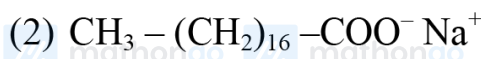
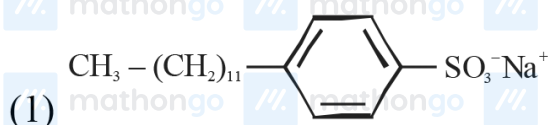
water samples which can be called as highly polluted with organic wastes, are

- (1) A and B (2) A and D
(3) B and C (4) B and D

Space for your notes:

Q9 - 26 June - Shift 2

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



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Q10 - 27 June - Shift 1

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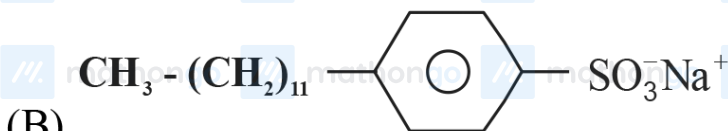
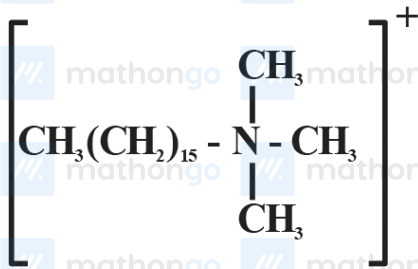
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Match List-I with List-II

Space for your notes:

List-I

(A)



(B)

(C) $\text{C}_{17}\text{H}_{35}\text{COO}^- \text{Na}^+ + \text{Na}_2\text{CO}_3 + \text{Rosinate}$ (D) $\text{CH}_3(\text{CH}_2)_{16}\text{COO}(\text{CH}_2\text{CH}_2\text{O})_n\text{CH}_2\text{CH}_2\text{OH}$

List-II

(I) Dishwashing powder

(II) Toothpaste

(III) Laundry soap

(IV) Hair conditioner

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

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

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

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

Q11 - 27 June - Shift 2

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Match List I with List II

List I	List II
A. Antipyretic	I. Reduces pain
B. Analgesic	II. Reduces stress
C. Tranquilizer	III. Reduces fever
D. Antacid	IV. Reduces acidity (Stomach)

Space for your notes:

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

Q12 - 28 June - Shift 2

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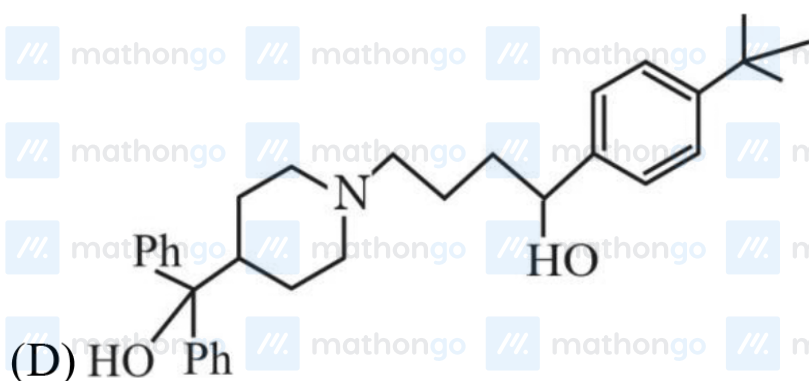
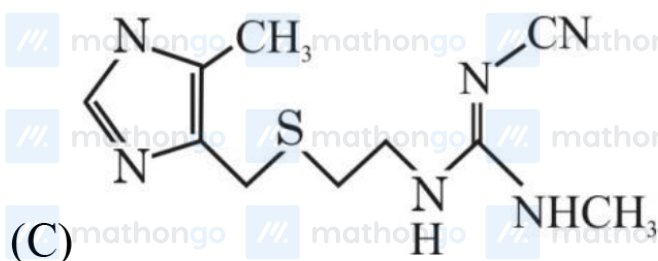
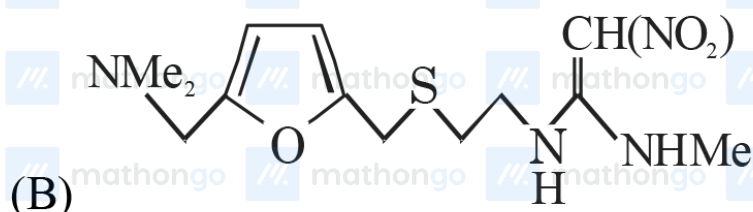
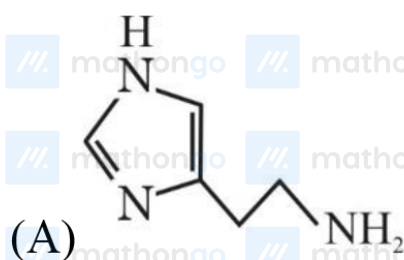
To practice more chapter-wise JEE Main PYQs, [click here to download the MARKS app](#) from Playstore

Questions

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The drug tegamet is :

Space for your notes:



Q13 - 29 June - Shift 1

Which of the following compound **does not** contain sulfur atom ?

Space for your notes:

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

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Answer Key

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Q1 (D)**Q2 (C)****Q3 (C)****Q4 (B)**

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Q5 (B)**Q6 (B)****Q7 (C)****Q8 (C)**

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Q9 (B)**Q10 (B)****Q11 (A)****Q12 (C)**

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Q13 (C)

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Hints and Solutions

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Q1 (D)

Penicillin G following is a narrow spectrum antibiotic

Q2 (C)**(C)****Q3 (C)**

Micelle formation only takes place above CMC.

Q4 (B)

Alitame is a second generation dipeptide sweetner that is 200 times sweeter than sucrose.

Q5 (B)

Zymase naturally occurs in yeast.

Diastase is found in malt.

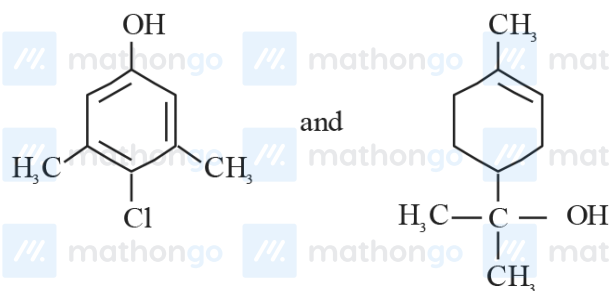
Urease is found in soyabean

Pepsin is found in stomach

Q6 (B)

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Dettol is mixture of



Chloroxylenol
(Compound A)

It has $6\pi e^-$

Terpineol
(Compound B)

It has $2\pi e^-$

Hence compound 'B' is Terpineol.

Q7 (C)

Histamine (It is used for secretion of pepsin & HCl

in stomach)

Q8 (C)

BOD for clean water < 5 ppm

Q9 (B)

Refer NCERT (Page No. 452)

Q10 (B)

Hints and Solutions

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(A) $[\text{CH}_3(\text{CH}_2)_{15} - \text{N}(\text{CH}_3)_3]^+ \text{Br}^-$

is cationic detergents used in hair conditioner



Is anionic detergent used in tooth pastes

(C) $\text{C}_{17}\text{H}_{35}\text{COO}^- \text{Na}^+ + \text{Na}_2\text{CO}_3 + \text{Rosinate}$ is

used as laundry soap

(D) $\text{CH}_3(\text{CH}_2)_{16} \text{COO}(\text{CH}_2\text{CH}_2\text{O})_N \text{CH}_2\text{CH}_2\text{OH}$

is non-ionic detergents formed from stearic acid

and poly ethylene glycol used as liquid

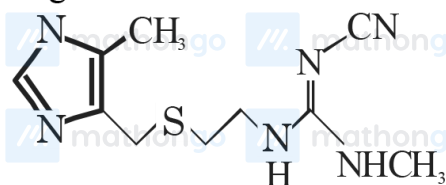
dishwashing detergents

Q11 (A)

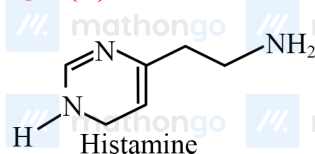
A. Antipyretic	Reduces fever
B. Analgesic	Reduces pain
C. Tranquilizer	Reduces stress
D. Antacid	Reduces acidity (Stomach)

Q12 (C)

Tegamet is the brand name of Cimetidine



Q13 (C)



Histamine is nitrogenous compound it does not contain sulphur.

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