

- Which of the following useful antioxidants for wine and beer?
(a) Citric acid (b) BHT
(c) BHA (d) Sulphur dioxide and sulphite
- BHT is ?
(a) Butylated hydroxy anisole (b) Benzene Hydroxy toluene
(c) Benzene Hexa Chloride (d) Benzylic Hydroxy Methyl
- Which of the following "gum" added with shaving soaps while making them?
(a) Ranin (b) Rosin
(c) Canon (d) Tonine
- Synthetic detergents can be used in
(a) Soft water (b) Hard water
(c) ice cold water (d) All of these
- Which of the following used in hair conditioner?
(a) Cetyltrimethylammonium bromide (b) Cetyl trimethyl ammonium chloride
(c) Trimethyl methane (d) Ammonium chloride
- Which statements about aspirin not true?
(a) Aspirin belongs to narcotic analgesics. (b) It is effective relieving pain
(c) It has anti blood clotting action. (d) It is neurologically active drug.
- The compound that causes general anti depressant action on the central nervous system belongs to the class of _____ :
(a) Analgesics (b) Tranquilizer
(c) Narcotic analgesics (d) Antihistamines
- Which of the following statements are incorrect about receptor proteins?
(a) Majority of receptor proteins are embedded in the cell membranes.
(b) The active side of receptor proteins opens on the inside region of the cell.
(c) Chemical messengers are received at the finding sites of receptor proteins.
(d) Shape of receptor charged during attachment of messenger.
- Compounds with antiseptic properties are:
(a) CHCl_3 (b) CHI_3
(c) Boric acid (d) (b) and (c) both
- Which of the following are sulpha drug?
(a) Sulphapyridine (b) Prontosil
(c) Nardil (d) (a) and (b) both
- Which of the following statements are incorrect about penicillium?
(a) An antibacterial fungus. (b) Ampicillin is its synthetic modification.
(c) It has bacteriostatic effect (d) It is not a spectrum antibiotic.

12. Among the following antihistamines which are antacids?

- (a) Ranitidine (b) Brom pheniramine
(c) Terfenadine (d) All of these

13. Which of the following statements are correct?

- (a) Cationic detergents have germicidal properties
(b) Some synthetic detergents can give foam even in ice cold water.
(c) Synthetic detergents are not - soaps
(d) All of these

14. Which type of drugs come under antimicrobial drugs ?

- (a) Antiseptics (b) Antibiotics
(c) Disinfectants (d) All of these

15. Match the medicines given in column : I with their use given in column – II

Column : I

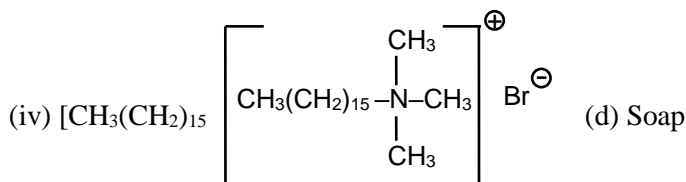
- (i) Ranitidine
(ii) Furacine
(iii) Phenelzine
(iv) Chloromphenicol

Column : II

- (a) Tranquilizer
(b) Antibiotic
(c) Antihistamine
(d) Antiseptic
(e) Antifertility drug.
- (a) i–c, ii–d, iii–a, iv–b (b) i–d, ii–b iii–e, iv–c
(c) i–a, ii–c, iii–e, iv–d (d) i–b, ii–c, iii–e, iv–a

16. Match structures given in column: I with the type of detergents given in column: II

- (i) $(\text{CH}_3\text{CH}_2)_{16}\text{COO}[\text{CH}_2\text{CH}_2\text{O}]_n \text{CH}_2\text{CH}_2\text{OH}$ (a) Cationic detergents
(ii) $\text{C}_{17}\text{H}_{35}\text{COO}^- \text{Na}^+$ (b) Anionic detergents
(iii) $\text{CH}_3-(\text{CH}_2)_{10}\text{CH}_2\text{SO}_3^- \text{Na}^+$ (c) Nonionic detergents



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

17. Soaps can be classified as :

- (a) carbohydrates (b) ethers
(c) salts of fatty acids (d) none of these

18. Which one of the following is employed as a tranquilizer ?

- (a) Equanil (b) Naproxen
(c) Tetracycline (d) Chlorpheninamine

19. Which one of the following is employed as Antihistamine ?

- (a) Chloramphenicol (b) Diphenyl hydramine
(c) Norothindrone (d) Omeprazole

20. Artificial sweetner which is stable under cold conditions only is :

- (a) Saccharine (b) Sucralose
(c) Aspartame (d) Alitame

21. Among the following, the narrow spectrum antibiotic is :

- (a) Chloramphenicol
(b) Penicillin G
(c) Ampicillin
(d) Amoxycillin

22. Which of the following chemicals are used to manufacture methyl isocyanate that caused "Bhopal Tragedy"?

- (i) Methylamine (ii) Phosgene
(iii) Phosphine (iv) Dimethylamine
(a) (i) and (iii) (b) (iii) and (iv)
(c) (i) and (ii) (d) (ii) and (iv)

23. The statement which is not correct, is :

- (a) Chlorophyll is responsible for the synthesis of carbohydrates in plants
(b) The compound formed by the addition of oxygen to haemoglobin is called oxyhaemoglobin
(c) Acetyl salicylic is known as aspirin
(d) The metal ion present in vitamin B₁₂ is Mg²⁺

24. A broad spectrum antibiotic is -

- (a) paracetamol (b) penicillin
(c) aspirin (d) chloramphenicol

25. Which one of the following types of drugs reduces fever ?

- (a) Tranquiliser (b) Antibiotic
(c) Antipyretic (d) Analgesic

26. Which of the following compounds is **not** an antacid ?

- (a) Aluminium hydroxide (b) Cimetidine
(c) Phenelzine (d) Ranitidine

27. The correct match between item-I and item-II

- | Item-I
(drug) | Item-II
(test) |
|--------------------|-----------------------------------|
| (A) Chloroxylenol | (P) Carbylamine test |
| (B) Norethindrone | (Q) Sodium hydrogencarbonate test |
| (C) Sulphapyridine | (R) Ferric chloride test |
| (D) Penicillin | (S) Bayer's test |
- (a) A → Q, B → P, C → S, D → R (b) A → Q, B → S, C → P, D → R

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

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

28. The mass percentage of nitrogen in histamine is _____

(a) 30.84

(b) 45.30

(c) 37.80 to 38.20

(d) 76.40

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

(a) 6

(b) 4

(c) 9

(d) 5

30. The number of chiral carbons in chloramphenicol is _____.

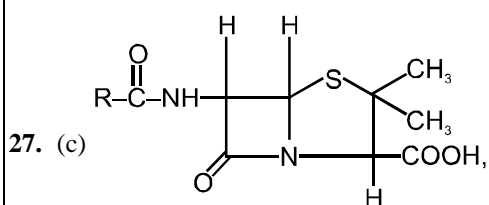
(a) 1

(b) 3

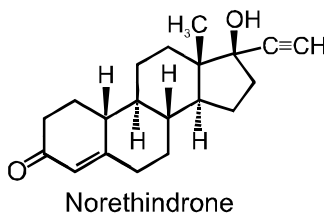
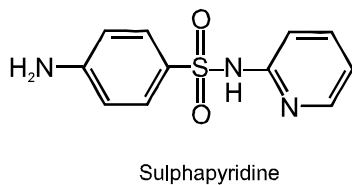
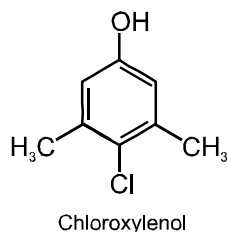
(c) 4

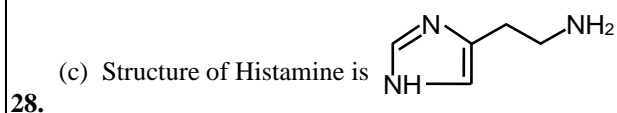
(d) 2

1. (d)
2. (b)
3. (b)
4. (d)
5. (a)
6. (a)
7. (b)
8. (b)
9. (d)
10. (d)
11. (c)
12. (a)
13. (d)
14. (d)
15. (a)
16. (d)
17. (c)
18. (a)
19. (b) Diphenyl hydramine is one of the Antihistamine drug.
20. (c) Aspartame is stable at cold conditions but unstable at cooking temperature.
21. (b) Fact Based from NCERT Page No 455 Chapter Chemistry in every day life
(Penicillin G has a narrow spectrum while Chloramphenicol, Ampicillin, Amoxycillin are broad spectrum)
22. (c)
23. (d) Vitamin B₁₂ or cyanocobalamine contains cobalt, not magnesium.
24. (d)
25. (c) Antipyretic drugs reduce fever. An algesic relieves in pain, antibiotics act against bacterial infections while tranquilisers are used against mental disorders.
26. (c) Phenelzine is tranquilizer. It is not an antacid.



Penicillin





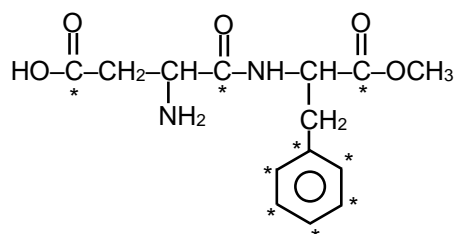
28.

Molecular formula of Histamine is $C_5H_9N_3$

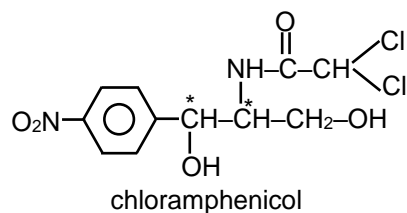
Molecular mass of Histamine is 111

Percentage nitrogen by mass in Histamine = $\frac{42}{111} \times 100 = 37.84\%$

29. (c)



All stated carbon atoms of aspartame are sp^2 hybrid. Aspartame is methyl ester of dipeptide formed from aspartic acid and phenylalanine.



30. (d)