

## Chemistry In Everday Life

1. Which of the following may be used as antipyretic as well as analgesic?

1. Aspirin                      2. Alkaloid codeine      3. Morphine                      4. Chloroquine

2. The chemical name of aspirin is

1. Methyl Salicylate    2. Ethyl Salicylate  
3. 2-Hydroxybenzoic Acid    4. 2-Acetoxybenzoic Acid

3. Which of the following term means pain killing?

1. Antibiotic                      2. Analgesic                      3. Antipyretic                      4. Penicillin

4. Paracetamol is

1. Both antipyretic acid analgesic    2. Analgesic  
3. Antipyretic    4. Anti-malarial

5. Diazepam (valium) is used as

1. An antibiotic                      2. An analgesic                      3. An anaesthetic                      4. A tranquillizer

6. The substances which affect the central nervous system and induce sleep are called.

1. Antipyretics                      2. Tranquilizers                      3. Analgesics                      4. Antibiotics

7. Which of the following is not a tranquilizer?

1. Luminal                      2. Seconal                      3. Valium                      4. Alitame

8. Which of the following is a mild tranquilizer?

1. Valium                      2. Meprobamate              3. Bithionol                      4. Norethindrone

9. The commonly used name of the insecticide DDT is

1. Dichloro Diphenyl Toluene                      2. Dichloro Diphenyl Trichloroethane  
3. Dibromo Diphenyl Trichloroethane              4. Dichloro Diphenyl Thiosemicarbazide

10. Which of the following is added to soap to impart antiseptic properties?

1. Bithional                      2. Luminal                      3. Veronal                      4. Chloral

11. Tincture of iodine contains

1. 10-15% Iodine      2. 2-3% Iodine              3. 25-30% Iodine              4. 0.1-0.2% Iodine

12. Dettol is a mixture of

1. Chloroxylenol and terpineol in a suitable solvent  
2. Formaldehyde and phenol in the solvent water  
3. Tincture of iodine and chloroform  
4.  $KMnO_4$  and iodoform

13. 0.2% Phenol is commonly used as

1. An insecticide      2. An antiseptic              3. A disinfectant              4. An anaesthetic

14. Among the following compounds, which one is a disinfectant?

1. Phenol    2. p-Xylene  
3. Chloromethylbenzene                      4. Morphine

15. The substance which is not used as antiseptic is
1. Bithional      2. 0.2% Phenol      3. 2-3% Iodine      4. Norethindrone
16. Chloramphenicol is used as an
1. Analgesic      2. Antibiotic      3. Anaesthetic      4. Antiseptic
17. Which of the following is an example of a broad spectrum antibiotic?
1. Penicillin G      2. Chloramphenicol      3. Streptomycin      4. Ampicillin
18. Medicine which is an antibiotic is
1. Ampicillin      2. Aspirin      3. Compose      4. Chloroquin
19. Which of the following is an antacid?
1.  $Mg(OH)_2$       2.  $Al(OH)_3$  gel      3.  $MgCO_3$       4. All the above
20. Which of the following is 100 times sweeter than sugar?
1. Sucrolose      2. Saccharin      3. Aspartame      4. Alitame
21. Acetylation of the two-OH groups of morphine with acetic anhydride gives
1. Codine      2. Heroin      3. Cocaine      4. Penicillin
22. 2-acetoxy benzoic acid is
1. Antiseptic      2. Aspirin      3. Antibiotic      4. Mordant dye
23. Enzymes are
1. Proteins      2. Lipids      3. Carbohydrates      4. Nucleic acids

- 24. Drugs can inhibit the catalytic activity of enzymes by binding at**
1. Active sites
  2. Allosteric sites
  3. Both 1 & 2
  4. Core of enzyme
- 25. Drugs which supplement (or) substitute for chemical messengers are**
1. Antagonists
  2. Agonists
  3. Blocking chemicals
  4. All
- 26. An example of a psychiatric agent is**
1. DNA
  2. LSD
  3. DDT
  4. TNT
- 27. The compound which possesses sedative and hypnotic properties is**
1. Paraldehyde
  2. Chloral hydrate
  3. Both 1 & 2
  4. Metaldehyde
- 28. Which of the following statements is not correct?**
1. Antipyretics are substances which are used to reduce the body temperature
  2. Analgesics are substance which are used to relieve pain
  3. Antiseptics and disinfectants can be used for the same purposes
  4. Antiseptics can be safely applied on living beings whereas disinfectants are not safe to apply
- 29. Among the following statements, which one is not correct?**
1. Aspirin is both an analgesic and an antipyretic.
  2. Ampicillin is a natural antibiotic.
  3. Sulfadiazine is a synthetic antibacterial.
  4. Some disinfectants can be used as antiseptics at low concentration.

30. Which of the following is a food antioxidant?

1. Butylated hydroxytoluene (BHT)      2. Butylated hydroxyanisole (BHA)  
 3. Saccharin      4. Both 1 & 2

31. Scouring soaps and soap power contain soap along with

1. Lime      2. Powered Pumice      3.  $Al_2(SO_4)_3$       4. All

32. The Tribial are given in list-I and their chemical names are given in list-II.

Match the following.

**List-I**

- A) Aspirin  
 B) Ibuprofen  
 C) Paracetamol  
 D) Penicillin-Iii

**List-II**

- 1)  $\alpha$ -methyl-4-(2-methyl propyl) benzene acitic acid.  
 2) p-hydroxy benzyl penicillin  
 3) N-(4-hydroxyphenyl) acetamide  
 4) Acetyl Salicylic Acid  
 5) Orthosulphobenzimide

The correct match is

	A	B	C	D
1.	4	1	5	2
2.	3	2	4	1
3.	4	1	3	2
4.	1	2	4	3

33. List-I contains common names and List-II contains names

**List-I**

- A) Penicillin F
- B) Penicillin G
- C) Penicillin X
- D) Phenacetin

**List-II**

- 1) N-(4-ethoxyphenyl) acetamide
- 2) Benzyl penicillin
- 3) n-heptyl penicillin
- 4) pent-2-entyl penicillin
- 5) p-hydroxy benzyl penicillin

The correct match is

	A	B	C	D
1.	4	2	5	1
2.	1	3	4	2
3.	2	1	5	3
4.	3	5	2	1

34. Assertion: a mixture of  $Mg(OH)_2$  is better antacid than  $NaHCO_3$ .

Reason:  $NaHCO_3$  makes stomach alkaline and trigger the over production of acid where as a mixture of  $Al(OH)_3 + Mg(OH)_2$  do not increase the  $p^H$  above 7 is stomach.

- 1. Both (A) and (R) are true and (R) is the correct explanation (A).
- 2. Both (A) and (R) are true and (R) is not correct explanation (A).
- 3. (A) is true but (R) is false.

4. (A) is false but (R) is true.

35. **Assertion: Heroin is morphine diacetate.**

**Reason: Morphine is an alkaloid.**

1. Both (A) and (R) are true and (R) is the correct explanation (A).

2. Both (A) and (R) are true and (R) is not correct explanation (A).

3. (A) is true but (R) is false.

4. (A) is false but (R) is true.

36. **The addictive property of narcotic drug is mainly due to their ability to produce**

1. Euphoria                      2. Blood clotting      3. Mental disorder      4. Hyper acidity

37. **Set-I**

**Set-II**

A) Aspirine

1) p-nitrophenol

B) Ibuprofen

2) Salicylic acid acetate Acetate

C) Paracetamol

3)  $\alpha$ -methyl-4 (2-methyl propyl) benzene Acetic Acid

D) Phenacetin

4) N- acetyl para amino phenol

	A	B	C	D
1.	1	2	3	4
2.	2	3	4	5
3.	5	4	3	2

4.    4                    3                    2                    1

38. The following steps are involved in the conversion of isobutyl benzene into ibuprofen.

A) Reduction      B) Acetylation      C) Hydrolysis      D) Addition of HCN

The correct sequence is

1. B A C D      2. B D A C      3. A C B D      4. D C B A

39. Molecular formula of penicillin is  $C_9H_{11}O_4SR$ . the incorrect matching is?

1. R = Benzyle penicillin.....penicillin G

2. R =  $CH_2 - C_6H_4 - OH$  .....Penicillin X

3. R = pent - 2 - enyl      ..... amyl penicillin

4. R =  $(CH_2)_6 - CH_3$  .....n- heptyl penicillin

40. Drugs possessing same structural features will have

A) Same mechanism of action

B) Similar physiological & psychological effect

C) Similar pharmacological effect

1. Only A, B      2. Only B, C      3. Only A, C      4. A, B, C

41. Dettol is a mixture of

1. Chloroxylenol and terpineol                    2. Furacin and Soframicin

3. Tincture of Iodine and Iodoform                    4. Boric acid and Bithionol



42. List-I

A) Antipyretic

B) Laxative

C) Hypnotic

D) Both analgesic & Antipyretic

List-II

1) Epsom salt

2) Chloretone

3) Paracetamol

4) Aspirin

The correct match is

	A	B	C	D
1.	1	2	3	4
2.	3	1	2	4
3.	4	2	1	3
4.	4	3	2	1

43. Which of the following statements is not true?

1. Some disinfectants can be used as antiseptics at low concentration.
2. Sulfadiazine is a synthetic antibacterial.
3. Ampicillin is semi synthetic antibiotic.
4. Aspirin is both analgesic and antipyretic.

44. List-I

1. Iodoform

2. Dil.aq. Boric acid

List-II

A) Narrow spectrum

B) Weak antiseptic

3. Penicillin-G                      C) Antiseptic for wounds  
4. Chloramphenicol                D) Broad spectrum antibiotic

**Correct Matching is**

	A	B	C	D
1.	1	3	4	2
2.	3	2	1	4
3.	4	2	1	3
4.	3	1	2	4

**45. Assertion: Birth control pill suppresses ovulation.**

**Reason: Birth control pill contains progesterone.**

1. Both (A) and (R) are true and (R) is the correct explanation (A).
2. Both (A) and (R) are true and (R) is not correct explanation (A).
3. (A) is true but (R) is false.
4. (A) is false but (R) is true.

**46. Oral contraceptive drugs contain**

- a) Mestranol                      b) Norethindrone                      c) Aspartame                      d) Terpeneol

**Correct answers are**

1. a and b only                      2. Norethindrone                      3. a, b and c                      4. a, b, c and d

**47. Assertion (A): Aspirin is used to prevent heart attacks.**

**Reason (R): Aspirin prevents the clotting of blood.**

1. A is true, R is true and R is the correct explanation A.
2. A is true, R is true and R is not correct explanation A.
3. A is true, R is false.
4. A is false, R is true.

**48. Assertion (A): Anti fertility drugs are used to birth.**

**Reason (R): These are less potent hormones.**

1. A is true, R is true and R is the correct explanation A.
2. A is true, R is true and R is not correct explanation A.
3. A is true, R is false.
4. A is false, R is true.

**49. Assertion (A): Antacids decrease the pH value.**

**Reason (R): Antacids are basic in nature.**

1. A is true, R is true and R is the correct explanation A.
2. A is true, R is true and R is not correct explanation A.
3. A is true, R is false.
4. A is false, R is true.

**50. Assertion (A): Ranitidine is used to control the attack of histamine.**

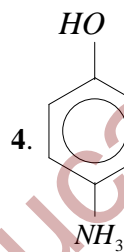
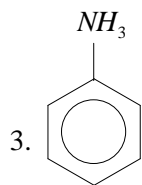
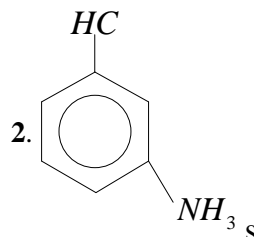
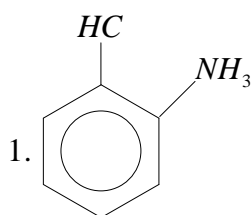
**Reason (R): It controls the secretion of acid.**

1. A is true, R is true and R is the correct explanation A.
2. A is true, R is true and R is not correct explanation A.

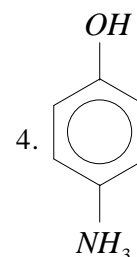
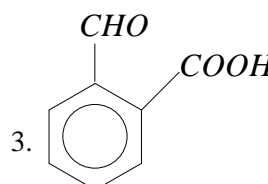
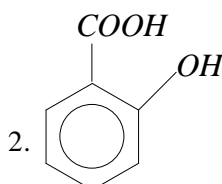
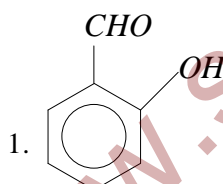
3. A is true, R is false.

4. A is false, R is true.

51. Which of the following gives paracetamol on acetylation?



52. Which one of the following compounds gives aspirin on reacting with acetic anhydride in the presence of con.  $H_2SO_4$ ?



Key

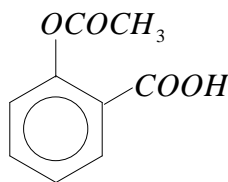
1) 1	2) 4	3) 2	4) 1	5) 4	6) 2	7) 4	8) 2	9) 2	10) 1
11) 2	12) 1	13) 2	14) 1	15) 4	16) 2	17) 2	18) 1	19) 4	20) 3

21) 1	22) 2	23) 1	24) 3	25) 2	26) 2	27) 3	28) 3	29) 2	30) 4
31) 2	32) 3	33) 1	34) 1	35) 4	36) 1	37) 2	38) 2	39) 3	40) 4
41) 1	42) 2	43) 3	44) 2	45) 2	46) 1	47) 1	48) 3	49) 4	50) 1
51) 4	52) 2								

Chemistry In Everyday Line (Solutions)

1. Aspirin is used as anti inflammatory, Analgesic antipyretic.

2.



2- acetoxy benzoic Acid

3. Analgesics are pain killers.

4. Paracetamol is widely used as Analgesic and antipyretic like aspirin.

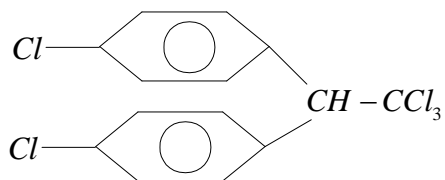
5. Diazepam (or) valium is used as a tranquilizer

6. Tranquilizers effect the central nervous system (CNS) and induce sleep.

7. Alitame is not a tranquilizer.

8. Meprobamate, equanil etc are mild tranquilizers.

9. DDT is dichloro diphenyl trichloroethane.



10. Bithionol is added to soaps to make it antiseptic
11. 2-3% alcoholic aqueous iodine solution is called as tincture of iodine which acts as an antiseptic for curing wounds.
13. Phenol acts as antiseptic in lower concentration and as disinfectant in higher concentration.
17. Chloramphenicol is an example for broad spectrum antibiotic.
26. LSD is psychiatric agents. LSD (lysergic acid and diethylamide)
38. Isobutyl Benzene undergoes Acetylation followed by addition of HCN, reduction and hydrolysis and forms ibuprofen.