Chemistry in Everday Life

2011

1.	Whi	ch one of the	histamine?	? [CBSE AIPMT]				
	1. Omeprazole			2	ohenicol			
	3. De	epenyl hydrar	nine	4. Norethindrone				
2.	Whi	ch one of the	following has	antiseptic prop	erty?	[Kerala CEE]		
	1. Di	ichloromethar	ne	2. Trichlorome	thane			
	3. Tr	riiodomethane	;	4. Tetrachloron	nethane			
3.	Terf	enadine is co	ommonly used a	as a/an		[Kerala CEE]		
	1. Tr	1. Tranquilizer		2. Antihistamine		3. Antimicrobial		
	4. Aı	ntibiotic		5. Antifertility	drug			
4.	Whi	ch of the foll	owing is phero	mone?		[Guj.CET]		
	1. Li	nalool	2. Disparlure	3. BHA		4. Alitame		
5.	Mate	ch metal ion	(List I) with co	lour (List II) in	presence o	f Alizarin		
						[Guj.CET]		
	N.	List-II		List-II				
	I.	Sr^{2+}	A)	Blue				
	II.	Mg^{2+}	B)	Pink				
	III.	Al^{3+}	C)	Violet				

IV. Ba^{2+}

D) Red

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

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

2. I-C, II-B, III-A, IV-d

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

2010

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

[CBSE AIPMT]

1. Mifepristone

2. Promethazine

3. Valium

4. Naproxen

7. The chemical name of aspirin is

[CPMT, WB JEE]

1. Methyl Benzoate

2. Hydroxyl Benzoic Acid

3. Acetyl Salicylic Acid

3. Ethyl Salicylate

8. Potassium metabisulphite is a (an)

[MHT CET]

1. Preservative

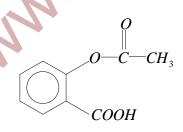
2. Antioxidant

3. Artificial Sweetener

4. Both (a) and (b)

9. The following compound is used as

[RPMT]



1. An anti-inflammatory compound

2. Analgesic

3. Hypnotic

4. Antiseptic

12. 13. 14. 15.	Which one of the	[RPMT]						
	1. Analgesiscs	2	2. Antipyretics					
	3. Aspirin	4	1. Tranquilizers					
11.	Arsenic drugs are	e mainly used in	the treatment of	[BVP]				
	1. Jaundice	2. Typhoid	3. Syphilis	4. Cholera				
12.	Which one of the following is employed as a tranquilizer? [CBSE AIPMT							
	1. Equanil	2. Naproxan	3. Tetracycline 4.	Chloropheninamine				
13.	The sweetest artif	ficial sugar amo	ng the following is	[AIIMS]				
	1. Aspartame	2. Sucralose	3. Alitame	4. Sucrose				
14.	Antipyretics are	used to	7/10	[MHT CET]				
	1. Relive pain	ly temperature						
	3. Kill micro-organ	xiety						
15.	2-acetoxy benzoic	acid is	[CG PMT, Hara	yana PMT]				
	1. Antiseptic	2. Antibiotic	3. Dye	4. Aspirin				
16.	The bacteriostation	ng the following is	[J&K CET]					
	1. Erythromycin	2. Penicillin	3. Aminoglycoside	e 4. Ofloxacin				
17.	The oxidant whic	h is used as an a	antiseptic is	[WB JEE]				
	1. <i>KBrO</i> ₃	2. <i>KMnO</i> ₄	3. <i>CrO</i> ₃	4. <i>KNO</i> ₃				
18.	In the following v	[MP PMT]						
	1. CH_3COONa	2. CH_3ONa	3. $C_{17}H_{35}COONa$	4. $C_{17}H_{35}SO_3Na$				

19. Select the detergent that is used to prepare cosmetics.

[Guju.CET]

1. DDBS

- 2. Polyethylene glycol
- 3. Cetyltrimethylammonium chloride
- 4. LAS

20. Which type of dyes are not used do dye nylon and polyester fibers?

[Guj.CET]

1. Vat dyes 2. Basic dyes

3. Disperse dyes

4. Insoluble azo dyes

2009

21. Assertion: Sodium-2-dodecyl benzenesulphonate is a biodegradable detergent.

Reason: Detergents having highly branched chains are biodegradable.
[AIIMS]

- 1. Both Assertion and Reason are true and Reason is the correct explanation of Assertion.
- 2. Both Assertion and Reason are true but Reason is not the correct explanation of Assertion.
- 3. Assertion is true but Reason is false.
- 4. Both Assertion and Reason are false.

22. The role of phosphate in detergent power is to

[CPMT]

- 1. Control pH level of the detergent water mixture.
- 2. Remove Ca^{2+} and Mg^{2+} ions from the water that causes the hardness of water.
- 3. Provide whiteness to the fabrics.

4. From solid detergent as phosphate-less detergent are liquid in nature.

23. A dye that imparts different colours to the fabric with different metal ions is called [Kerala CEE]

- 1. Mordant dye
- 2. Disperse dye
- 3. Vat dye

- 4. Direct dye
- 5. Acid dye

2008

24. Which of the following is a local anesthetic?

[AMU]

- 1. Diazepam
- 2. Procaine
- 3. Chlorophenicol
- 4. Penicillin-G

25. Which of the following is not true for antibiotics?

[BHU]

- 1. Tetracycline is one of the broad spectrum antibiotics which is effective against a large number of harmful micro-organisms.
- 2. Streptomycin is highly effective against micro-organisms which cause tuberculosis.
- 3. Penicillin has a narrow spectrum and certain persons are sensitive to it.
- 4. Penicillin may be administered without testing the patient's sensitivity to it.

26. The functional groups present in 'salol' are

[Punjab PMET]

1. $-NH_2$ and -OR

- 2. -OH and -COR
- 3. OH and COR
- 4. NH₂ and –COOR

27. Which of the following is used as an antibiotic?

[DUMET]

1. Ciprofloxacin

2. Paracetamol

3. Ibuprofen

4. Tocopherol

28.	Which of the following st	atement is not true?	[Kerala CEE]					
	1. Some disinfectants can be used as antiseptic at low concentration.							
	2. Sulphadiazine is a synth							
	3. Pheromones provide chemical means of establishing communication.							
	4. Aspirin is analgesic and	n is analgesic and antipyretic						
	5. Norethindrone is a phero							
29.	The environmental friendly method of killing harmful insects is through the							
	use of		[Kerala CEE]					
	1. Insecticides	2. Sex Attractants 3. Sex	Hormones					
	4. Pesticides	5. Antibiotics						
30.	Tranquillisers are also k	nown as	[MHT CET]					
	1. Psychosomatic drugs	2. Psychotherapeutic	c drugs					
	3. Psychosystolic drugs	4. None of the above	e					
31.	Azo dye is prepared by the	he coupling of phenol and	[AMU]					
	1. Diazonium Chloride	2. o-Nitroani	line					
	3. Benzoic Acid	4. Chloroben	zene					
32.	Benzaldehyde codenses v	vith N,N-dimethylaniline in prese	nce of anhydrous					
	ZnCl ₂ to give		[DUMET]					
	1. Michler's Ketone	2. Azo Dye						
	3. Malachite Green	4. Buffer Yellow						

2007

33.	Chloramine-T is a	[AFMC]					
	1. Disinfectant	2. Antiseptic	3. Analgesic	4. Antipyretic			
34.	Heart partients ca	n be given		[DUMET]			
	1. Monosaturated F	atty Acid	2. Trans Fatty Acid				
	3. Polyunsaturated	Fatty Acid	4. Polysaturated Fatty Acid				
35.	Which of the follo	wing is used as a 'm	orning after pill'?	[Kerala CEE]			
	1. Notethindrone 2. Ethynylestradiol 3. Mifepristone						
	4. Bithional	5. Promethaz	zine				
36.	Paracetamol is an	.0)	[JCECE]			
	1. Analgesic	2. Antipyretic	3. Both (a) and (b)	4. None of these			
37.	Which one of disp	erse dye?		[AFMC]			
	1. Congo red	2. Alizarin	3. Celliton	4. None of these			
38.	The 'saponification value' of an oil or fat is measured in term of [AIIMS]						
	1. <i>NH₄OH</i>	2. NaOH	3. KOH	$4. C_6H_5OH$			
39.	Rayon is			[AIIMS]			
	1. Natural silk		2. Artificial silk				
	3. Natural plastic of	r rubber	4. Synthetic plastic				

40. Which of the following process will give soap?

[DUMET]

- 1. Hydrolysis
- 2. Saponification
- 3. Neutralisation
- 4. Acidification
- 41. An insoluble dye is reduced to a soluble colourless leuco form by an alkaline reducing agent. The fibre is soaked in the dye solution and then exposed to air to develop the colour. The dye is [Kerala CEE]
 - 1. Mordant dye
- 2. Vat dye

3. Azo dye

- 4. Direct dye
- 5. Disperse dye
- 42. Detergents are known to pollute rivers and waterways. However, detergents can be made biodegradable and pollution free by taking [Kerala CEE]
 - 1. Cyclic Hydrocarbon Chain

- 2. Shorter Hydrocarbon Chain
- 3. Hydrocarbon with more branching
- 4. Benzenoid Hydrocarbons
- 43. Select the basic dye from the following

[Guj.CET]

- 1. Cango Red
- 2. Methyl Red
- 3. Methyl Orange
- 4. Malachite Green

KEY

1) 2	2) 3	3) 2	4) 4	5) 4	6) 3	7) 3	8) 4	9) 2	10) 2
11) 3	12) 1	13) 3	14) 2	15) 4	16) 1	17) 2	18) 3	19) 3	20) 1
21) 4	22) 2	23) 1	24) 2	25) 4	26) 4	27) 1	28) 5	29) 2	30) 2
	22) 2		24) 2						
31) 1	32) 3	33) 2	34) 3	35) 3	36) 3	37) 3	38) 3	39) 2	40) 2
41) 2	42) 3	43) 4							

SOLUTIONS

- 1. Dilphenyl hydramine is employed as anthistamine.
- 2. Triiodomethane or iodoform has antiseptic property and it is applied to wounds.
- 3. Terfenadine is an anthisistamine. Antihistamine interferes with the natural action of histamine by competing with histamine for binding sites of receptor where histamine exerts its effect.
- 4. Disparlure is an example of pheromone (sex attractants)
- 6. I-D, II-C, III-B, IV-A
- 6. Valium is used as a tranquilizer drug
- 7. The chemical formula of aspirin is

Thus, it is chemically acetyl salicylic acid.

- 8. Potassium meta bisulphite, $K_2S_2O_5$, is a white crystalline solid with pungent odour of sulphur. It is used as an antimicrobial preservative, antioxidant and bleaching agent in food.
- 10. Type of drugs Work

Analgesics

Relieve pain

Antipyretics

Lower body temperature

Tranquilizers

For treatment of stress and metal diseases

- 11. Aresenic drugs such as salvarsan are used for the treatment of syphilis.
- 13. Among the given sugars, sucrose is the natural sugar while other are artificial.

 Among artificial sugars, alitame is about 2000 times sweeter than cane sugar.
- 14. The chemicals that are used to bring down body temperature in high fever, are called antipyretics, e.g., paracetamol, analgin etc.
- 15. The structure of 2-acetoxy benzoic acid is

It is used as an analgesic (i.e., pain relieving drug) under the name aspirin.

- 16. Antibiotics have either cidal (killing) effect of static (inhibitory) effect on microbes. Erythromycin is a bacteriostatic antiseptic.
- 17. $KMnO_4$ is used as an antiseptic
- 18. As soaps are the sodium and potassium salts of higher fatty acids, thus $C_{17}H_{35}COONa$ sodium stearate is soap.
- 19. Cetyltrimethyl ammonium chloride is a cationic detergent. It is used to prepare cosmetic because it possesses germicidal properties.
- 20. Vat dyes are not used to dye nylon and polyester fibers but used to dye cotton fibers. Basic dyes disperse dyes and insoluble azo dyes however, are used to dye nylon and polyesters.

- 21. Detergents with straight chains (unbranched chains) are biodegradable. Since, sodium-2dodecylbenzenesulphonate has branched chain, it is a non-biodegradable detergent.
- 22. The role of phosphate in detergent power is to remove Ca^{2+} and Mg^{2+} ion from the water that causes the hardness of water.
- 23. Mordant dyes are used for dyeing fabrics in the presence of metal ions. In case of such dyes, the metals ion acts as binding agent between dye and fabric. A single mordent dye imparts different colours to the fabrics in the presence of different metal ions.
- 26. Salol is phenyl salicylate. The functional group present I salol are OH and COOR. Its structure is as

- 27. Ciprofloxacin is used as antibiotic while paracetamol, ibuprofen and tocopherol respectively, are antipyretic, pain killer and vitamin E.
- 28. Norethindrone is not a pheromone. It is a progestin hormone. It is used for treating certain menstrual and uterine problems. It works by altering the lining of uterus.
- 29. Sex attractant pheromones have been used for pest control (i.e., to kill harmful insects). This method is environment friendly.
- 34. Polyunsaturated fatty acid is given to heart patients.
- 35. Mifepristone is used as a 'morning after pill'.
- 36. Paracetamol is used as an antipyretic as well as analgesic.

- 37. Celliton is a disperse dye. Disperse dye are usually applied in the form of dispersion of finely divided dye in a soap solution in the presence of phenol, cresol, benzoic acid etc. They are mainly used to dye Dacron, nylon, synthetic fiber.
- 38. Saponification value is the number of milligrams of KOH required to neutralize the fatty acid resulting the fatty acid resulting from the complete hydrolysis of 1 g of oil or fat.