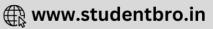
CHEMISTRY IN EVERYDAY LIFE

1	C-1-1 b d												
1.	Salol can be used as	15 4	A A 1 1	D. D. J. C. J. J.									
_	a) Antiseptic	b) Antipyretic	c) Analgesic	d) Disinfectant									
2.	Which of the following is												
	a) Quinine	b) Paracetamol	c) Luminal	d) Poperazine									
3.	Which of the following is												
	a) Alizarin	b) Malachite green	c) Indigo	d) Orange I									
4.	Which of the following is												
	a) Tetracyclin	b) Neomycin	c) Carbomycin	d) Cyclohexane									
5.	Fluoresce in, a well know	n dye is obtained by the rea	actions of:										
	a) Phthalic anhydride and phenol												
	b) Phthalic anhydride and resorcinol												
	c) Succinic acid and resorcinol												
	d) Phthalic anhydride and catechol												
6.	Which of the following is bacteriostatic?												
	a) Penicillin	b) Erythromycin	c) Amino glycodine	d) Ofloxacin									
7.	One of the most widely used drug in medicine, iodex is:												
	a) Methyl salicylate												
	b) Ethyl salicylate												
	c) Acetyl salicylic acid												
	d) o-hydroxy benzoic acid												
8.	The substances which effect the central nervous system and induce sleep are called:												
	a) Tranquillizers	b) Antipyretics	c) Analgesics	d) None of these									
9.	Methyl orange is an indic	ator in acid-alkali titration.	It gives:	35.00									
	a) Yellow colour in alkali	ne medium											
	b) Red colour in acid med	lium											
	c) Yellow colour in acid n	nedium											
	d) Yellow colour in alkaline medium and red colour in acid medium												
10.	Red ink is prepared from												
	a) Phenol	b) Aniline	c) Congo red	d) Eosin									
11.	An insoluble dye is reduced to a soluble colourless leuco form by an alkaline reducing agent. The fibre is												
	and the state of the control of the state of	n and then exposed to air to											
	-	b) Vat dye	-										
12.	(A)	nces used for the treatment	(5) (5)										
	a) Cancer	b) AIDS	c) Mental diseases	d) Physical disorders									
13.		n LAB are biodegradable. LA	. 그 그렇게 이 그리고 요즘 옷을 살아내면 하나요 하나요 하나 시작하는데										
	a) Laboratory tested raw material b) Low anionic balance												
	c) Linear alkyl benzene		d) None of the above										
14.	Phenacetin is used as:		The second secon										
	a) Antipyretic	b) Antiseptic	c) Antimalarial	d) Analgesic									
15.	그렇게 다양하다가	posed PSLV rocket of the Ir		27. 1 OTT :									
107.5	a) A composite solid proj												
	,	2000 STEELS											





- b) Biliquid propellants such as N_2O_4 + unsymmetrical dimethyl hydrazine (UDMH) and N_2O_4 + monomethyl hydrazine (MMH)
- c) Both (a) and (b) in different stages of rocket propulsion
- d) Kerosene and liquid oxygen
- 16. Which of the following is a hypnotic drug?
 - a) Luminal
- b) Salol
- c) Catechol
- d) Chemisol

- 17. Chloramine-T is a
 - a) Disinfectant
- b) Antiseptic
- c) Analgesic
- d) Antipyretics

- 18. Select the incorrect statement regarding detergents
 - a) These have a non-polar organic part and a polar group
 - b) These are surface active reagent
 - c) These are sodium salt of fatty acids
 - d) These are not easily biodegradable
- 19. The antibiotic streptomycin is specific against:
 - b) Typhoid
- c) Malaria
- d) AIDS

- 20. Paracetamol is
 - a) Both antipyretic and analgesic

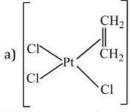
b) Only analgesic

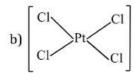
c) Only antipyretic

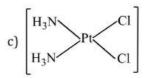
a) Tuberculosis

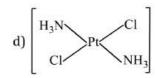
- d) Antimicrobial
- 21. An antibiotic effective in treatment of pneumonia, bronchitis etc, is
 - a) Pencillin
- b) Patalin
- c) Chloromycetin
- d) Tetracycline

- 22. Bithional is added to soap as an additive to function as a/an
 - a) Softener
- b) Hardener
- c) Dryer
- d) Antiseptic
- 23. Which of the following is considered to be an anticancer species?









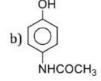
- 24. Which of the following is not a artificial sweetener?
 - a) Sucralose
- b) Alitame
- c) Saccharin
- d) Sucrose
- 25. Which of the following is used as an oxidizer in rocket propellants?
 - a) Alcohol

b) Acrylic rubber

c) Hydrazine

- d) Ammonium perchlorate
- 26. The correct structure of the drug paracetamol is









- 27. Which of the following forms cationic micelles above certain concentration?
 - a) Sodium ethyl sulphate

b) Sodium acetate

d) Cetyltrimethylammonium bromide

- c) Urea
- 28. A medicine which promotes the secretion of urine is called:
 - c) Diuretic
- d) Triuretic

- a) Uretic 29. Aspirin is a/an
 - a) Narcotic drug
- b) Antipyretic

b) Monouretic

- c) Antimalarial
- d) Antiseptic

- 30. Bithional is an example of
 - a) Disinfectant
- b) Antiseptic
- c) Antibiotic
- d) Analgesic

31. Hydrazine as a drug is also used in the treatment of:





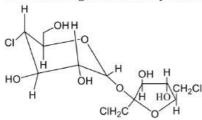
a) Typhoid b) Cholera c) Malaria d) Tuberculosis 32. Chloromycetin (Chloramphenicol) is effective in the treatment of: a) Tuberculosis b) Malaria c) Typhoid d) Cholera 33. A hybrid rocket propellant uses a) A liquid oxidizer and a solid fuel b) A composite solid propellant c) A biliquid propellant d) A solid, liquid and gas as a propellant 34. Which of the following is not a chromophore? a) -N=Nb) -NO c) $-NO_2$ d) - NH₂35. The insecticide containing 99% γ -isomer of benzene hexachloride is known as: b) TNT c) Malathion d) Methoxychlor a) Lindane 36. The poisonous gas evolved in Bhopal tragedy from the pesticide plant of Union Carbide Co. was: a) CO b) Methyl isocyanate c) Phosgene d) Chloropicrin 37. One of the most known antiseptic, dettol is a mixture of terpineol and a) Bithional b) Chloroxylenol c) o-cresol d) Serotonin 38. The formulation of Dettol contains: a) Chloroxylenol b) Terpineol c) Alcohol d) All of these 39. The blue print process involves the use of: a) Indigo dyes b) Vat dyes c) Iron compounds d) Zinc compounds 40. Chloramphenicol is used as an: b) Anaesthetic c) Antibiotic d) Antiseptic a) Analgesic 41. Which one of the following is employed as antihistamine? a) Omeprazole b) Chloramphenicol c) Diphenyl hydramine d) Norothindrone 42. Which of the following is a hallucinogenic drug? a) Methedrine b) Calmpose c) LSD d) Seconal 43. Detergents are prepared by the action of H2SO4 followed by neutralisation by starting with a) Choesterol b) Lauryl alcohol c) Cyclohexanol d) p-nitrophenol 44. The drug Η -NH₂ is used as a) Vasodilator b) Analgesics c) Antacid d) Antiseptic 45. Which of the following is not a surfactant? b) $CH_3 - (CH_2)_{14} - CH_2NH_2$ a) $CH_3 - (CH_2)_{15} - N^+(CH_3)_3 Br^$ c) $CH_3 - (CH_2)_{16} - CH_2OSO_2^-Na^+$ d) $OHC - (CH_2)_{14} - CH_2 - COO^-Na^+$ 46. Sulpha drugs are used for: a) Precipitating bacteria b) Removing bacteria c) Decreasing the size of bacteria d) Stopping the growth of bacteria 47. Indigo belongs to the class of: a) Mordant dye b) Vat dye c) Direct dye d) Disperse dye 48. Various phenol derivatives, tincture of iodine (2-3% I2 in water/alcohol) and some dyes like methylene blue are: a) Antiseptics b) Disinfectants c) Analgesics d) Antipyretics 49. Acetoxy benzoic acid is: a) Antiseptic c) Antibiotic d) Mordant dye b) Aspirin 50. Which one is an antibiotic?

a) Aspirin b) Chloromycetin c) Chloroquin d) Madribon 51. Which one of the following is known as broad spectrum antibiotics? d) Penicillin G a) Streptomycin b) Ampicillin c) Chloramphenicol 52. Aspirin is an acetylation product of a) p-dihydroxybenzene b) o-hydroxybenzoic acid d) m-hydroxybenzoic acid c) o-dihydroxybenzene 53. Fluorescein is an example of b) Phthalein dyes a) Azo dyes c) Triphenyl methane dyes d) Nitro dyes 54. Which of the following drugs is a tranquillizer and sedative? a) Sulphadiazine b) Papaverine c) Equanil d) Mescaline 55. Aspirin is a) Acetylsalicylic acid b) 2-methyoxybenzoic acid c) Acetyloxalic acid d) Methylbenzoic acid 56. Chloroquine is an example of: b) Antimalarial d) Antitubercular drug a) Antipyretic c) Antibacterial 57. A combination of nitrocellulose and nitroglycerine is a propellant of the type: a) Hybrid propellant b) Mono propellant c) Double base propellant d) Biliquid propellant 58. Which of the following is red dye? 59. Medicine which is antibiotic is a) Ampicillin b) Phenacetin c) Calmpose d) Chloroquine 60. Baby talcum powders contain a) Benzoin, glyceryl discetate b) Zinc acetate, glyceryl diacetate c) Zinc stearate, boric acid d) Zinc stearate, cinnamic ester 61. A synthetic detergent is a a) Cleansing agent d) Soap b) Drug c) Catalyst 62. The safest and the most common alternative of sugar is d) cyclodextrin a) Glucose b) Aspartame c) Saccharin 63. Which of the following is a direct dye? a) Phenolphthalein b) Congo red c) Alizarin d) Indigo 64. Salol can be used as: c) Analgesic a) Antiseptic b) Antipyretic d) None of these 65. Alizarin gives a red colour by mordanting it with the sulphate of a metal. The metal ion involved is: a) Cr^{3+} b) Fe3+ c) Al3+ d) Sn²⁺ 66. Which one of the following is a vat dye? a) Alizarin b) Indigo c) Malachite green d) Methyl orange



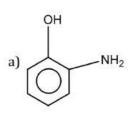
- 67. Which one of following types of drugs reduces fever?
 - a) Analgesic
- b) Antipyretic
- c) Antibiotic
- d) Tranquilizer

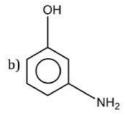
- 68. Alizarin a mordant dye is not used in:
 - a) Cotton dyeing
 - b) Printing
 - c) Painting
 - d) Chromium lakes for wood dyeing
- 69. The following structure represents

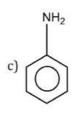


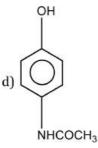
- a) Sucrose
- b) Sucralose
- c) Aspartame
- d) Alitame

70. Which of the following gives paracetamol on acetylation?









- 71. Which of the following is a natural dye?
 - a) Martius yellow
- b) Alizarin
- c) Phenolphthalein
- d) Orange I

- 72. Medicine which is an antibiotic is
- a) Ampicillin 73. Cocaine is:
- b) Aspirin
- c) Compose
- d) All of these

- a) Vitamin
- b) Poison
- c) Medicine
- d) Antipyretic

- 74. Hippuric acid has the formula
 - a) CH₃CONHCH₂COOH

b) C₆H₅CONHCH₂COOH

c) C₆H₅NHCOOH

- d) NH₂CONHCOOH
- 75. Which of the following is not an antipyretic?
 - a) Aspirin
- b) Paracetamol
- c) Barbituric acid
- d) Phenacetin

- 76. An azo dye is fixed on fabrics by the process applicable in:
 - a) Vat dyes
- b) Mordant dyes
- c) Developed dyes
- d) Substantive dyes

- 77. Aspirin is an acetylation product of
 - a) o-hydroxybenzoic acid

b) o-hydroxybenzene

c) m-hydroxybenzoic acid

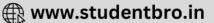
d) p-dihydroxybenzene

- 78. Which statement is false?
 - a) Some disinfectants can be used antiseptics at low concentration
 - b) Sulphadiazine is a synthetic antibacterial
 - c) Ampicillin is a natural antibiotic
 - d) Aspirin is analgesic and antipyretic both
- 79. An insoluble coloured compound formed by action of metallic salts on dyes is known as:
 - a) Lake
- b) Mordant
- c) Dye intermediate
- d) None of these

- 80. Which of the following is a germicide also?
 - a) Cationic detergent

b) Anionic detergent





c) Non-ionic detergent

d) None of the above

81. An azo dye is formed by interaction of an aromatic diazonium chloride with:

- a) A phenol
- b) An aliphatic primary amine
- c) Benzene
- d) Nitrous acid

82. Which of the following is not an antiseptic drug?

- a) Iodoform
- b) Dettol
- c) Gammexane

d) Genatian violet

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

- a) Antipyretics
- b) Tranquilizers
- c) Analgesics
- d) None of these

84. An example of a liquid propellant is:

- a) Liquid N2O4+ kerosene
- b) $HNO_3 + HCl$
- c) H₂SO₄+ hydrazine
- d) None of the above

85. Sodium alkyl benzene sulphonate is used as

- a) Soap
- b) Fertilizer
- c) Detergent
- d) Pesticide

86. Which of the following drugs is an analgesic?

- a) Sulphaguanidine
- b) Paludrin
- c) Analgin
- d) Iodex

87. Which of the following is an ingrain dye?

- a) Congo-red
- b) Aniline black
- c) Alizarin
- d) Indigo

88. Oral contraceptive drugs contain

- a) Mestranol
- b) Norethindrone
- c) Both (a) and (b)
- d) None of these

89. An example of a psychedelic agent is:

- a) DNA
- b) LSD

- c) DDT
- d) TNT

90. Which are insecticides?

- a) Baygon
- b) Savine
- c) Methoxy chlor
- d) All of these

91. The drugs used to get relief from pain are called

- a) Antipyretics
- b) Analgesics
- c) Antibiotics
- d) Antiseptics

92. Which of the following is used as an antiseptic?

- a) Phenol
- b) Benzaldehyde
- c) Benzalamine
- d) Malic anhydride

a) Methyl orange

- b) Methyl red
- c) Phenolphthalein
- d) All of these

94. 4-chloro-3,5-dimethyl phenol is called

a) Chloramphenicol

93. Which one is acidic dye?

- b) Paracetamol
 - c) Barbital
- d) Dettol

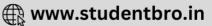
95. A space rocket is propelled by:

- a) An automobilic engine
- b) Nuclear engine
- c) Steam engine
- d) Mixture of fuel and oxidiser called propellant

96. The following compound is used as:

- a) An anti-inflammatory compound
- b) Analgesic
- c) Hypnotic
- d) Antiseptic



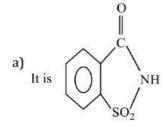


97	The antiseptic action of	dettol is due to											
	a) Chlorobenzene	b) Chloroxylenol	c) Terpineol	d) Both (b) and (c)									
98	Which is the relation bet	ween the specific I_s impuls	e and the critical temperat	ure T_c attained in a rocket									
	blast?												
	a) $I_s \geq T_c$	b) I_s and T_c^2	c) $I_s \ge T_c^{1/2}$	d) $I_s \geq 1/T_c$									
99	The drug used for preve	ntion of heart attacks is											
	a) Aspirin	b) Valium	c) Chloramphenicol	d) Cephalsoprin									
10	0. Which one of the followi	ng is employed as a tranqu	illizer?										
	a) Chlorpheninamine	b) Equanil	c) Naproxen	d) Tetracycline									
10	 Which of the following is 	등에는 성격은 함께는 하기 하면 주면에 가는 것이 되는 것이 제 사람들이 들어 있는 것이 없는 것이다. 하기 등 하기 기 <mark>급</mark> 하면 없어요											
	a) Pentaerythritol mono		b) Sodium stearyl sulphate										
4.0	c) Trimethyl stearyl amı		d) Ethoxylated nonyphenol										
10	2. Trade name of aspartam		3.6 1	15. 54									
10	a) Alitame	b) Saccharin	c) Sucralose	d) Nutra sweet									
10	Which of the following is a) Methyl orange	b) Orange I	c) Aniline yellow	d) All of these									
10	4. Which of the following is		c) Allillie yellow	u) All of these									
10	a) Allergy	b) Cancer	c) German measeles	d) Sickel-cell anaemia									
10	5. 2-acetoxy benzoic acid is		c) derman measeres	a) bleker cen undenna									
	a) Antimalarial	b) Antidepressant	c) Antiseptic	d) Antipyretic									
10	106. Which of the following groups is not an auxochrome?												
	a) $-N(CH_3)_2$	b) —H	c) —OCH ₃	d) $\rangle_{C=N}$									
10	7. Arsenic drugs are mainly	used in the treatment of:	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Z									
- 0	a) Jaundice	b) Typhoid	c) Syphilis	d) Cholera									
10		100000	preparation of paracetamol										
	a) HNO ₃ , H ₂ /Pd, (CH ₃ CO		b) H ₂ SO ₄ , H ₂ /Pd, (CH ₃ CC	E									
	c) C ₆ H ₅ N ₂ Cl, SnCl ₂ /HCl,	\$1.TeX	d) Br ₂ /H ₂ O, Zn/HCl, (CH ₃ CO) ₂ O										
10	9. Which one is a broad spe	ectrum antibiotic?											
	a) Chloramphenicol	b) Plasmoquin	c) Xylocane	d) Antiseptic									
11	0. Which of the following is	not used as an antacid?											
	 a) Magnesium hydroxide 	e	b) Sodium carbonate										
	c) Sodium bicarbonate		d) Aluminium phosphate										
11		tatement is not true about t											
	a) It causes addiction		b) It is a non-hypnotic drug										
4.4	c) It is tranquillizer	, and a second	d) It is used insleeping pills										
11	2. Heroin is acetyl derivativ		A Minukina	J) Manalita									
11	a) Caffeine	b) Cocaine	 c) Nicotine aatic nucleus in its structure 	d) Morphine									
11	a) Pencillin	b) Streptomycin	c) Tetracyclin	d) Chloramphenicol									
11	마이스 바로 전혀 가장 전혀 가장 보다 있습니다. 기업이 하면 있다.	and acetylation gives, respe		u) chioramphenicoi									
**	a) Heroin, codeine	b) Heroine, meperidine	c) Codeine, heroin	d) Meperidine, heroin									
11	-		dye. This reaction is know										
	a) Diazotisation	b) Condensation	c) Coupling	d) Reduction									
11		not a chlorinated insectici		× .									
	a) DDT	b) Methoxychlor	c) Parathion	d) BHC									
11	7. A composite solid prope	llant consists of:	1000										
	a) Polyurethane or polyl	outadiene and ammonium p	perchlorate										
	b) Nitroglycerine and nit	trocellulose											
	c) Hydrazine and N ₂ O ₄												

d) Kerosene and liquid o													
118. Which of the following is													
a) Linalool	b) Disparlure	c) BHA	d) Alifame										
	Which of the following is a vat dye and often used in dyeing jeans?												
a) Indigo	b) Alizarin	c) Picric acid	d) Crystal violet										
120. Chloroamphenicol is an:			-522 (1774) (175-612 WYGG) (74-95-612 (1670) (54.5 W)										
a) Antifertility drug	b) Antihistaminic	c) Antiseptic and	d) Antibiotic broad										
707 T W W W W W W W W W W W W W W W W W W	2 2 2 22	disinfectant	spectrum										
121. In the following sets of c	27001	contains only medicinal cor	npounds is										
a) Alizarin, phenacetin,													
	b) Aspirin, gention violet, phenophthalein												
c) Boric acid, chloramphenicol, aspirin d) 9-oxodecanoic acid, boric acid, morphine													
	and the first of the state of t												
	соон												
The compound	The compound is used as												
a) Antiseptic	b) Antibiotic	c) Analgesic	d) Pesticide										
N. C.			d) i esticide										
123. Which of the following structures represents a colourless substance? C-H-N=N=C-H-S													
a)	a) $C_6H_5-N=N-C_6H_5$												
Ó													
b) $C_6H_5-N=N-C_6H_5$													
이 의존에 가게 하게 하는 그 살 살아 있어? 그 사람들이 나를 그 때 어때?	c) C_6H_5 —NH—NH— C_6H_5												
d) None of the above													
124. Paracetamol is													
 a) Methyl salicylate 		b) Phenyl salicylate											
c) N-acetyl <i>p</i> -amino phe		d) Acetyl salicylic acid											
125. Which of the following is													
	a) Iodoform b) Dettol c) Lindane d) Gention violet												
126. Select the detergent that	is used to prepare cosmet												
a) DDBS	SELECTION AND A CONTRACT OF CO	b) Polyethylene glycol											
c) Cetyltrimethylammor		d) LAS											
- 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Which one is disperse dye?												
a) Congo red	b) Alizarin	c) Celliton	d) None of these										
128. Heroin is a derivative of		-) Coffeine	J) Ni										
a) Cocaine	b) Morphine	c) Caffeine	d) Nicotine										
129. Which of the following r	7)	a) C H COOH	4) (C H COO) Co										
a) C ₁₇ H ₃₅ COOK	b) C ₁₇ H ₃₅ COOH	c) C ₁₅ H ₃₁ COOH	d) $(C_{17}H_{35}COO)_2Ca$										
 The drug, effective for the a) Paracetamol 	b) Luminal	c) Chloromycetin	d) Novalgin										
131. Which of the following c		the second of th	u) Novaigiii										
a) Carbon tetrachloride	ompounds is used as reirig	Crant:											
b) Acetone													
c) Carbon tetrafluoride													
d) Dichlorodifluoromethane													
132. Tranquilisers are also known as													
a) Psychosomatic drugs		b) Psychotherapeutic drugs											
c) Psychosystolic drugs		d) None of the above											
133. Soaps are classified as		a, none of the above											
a) Ether	b) Salts of fatty acids	c) Carbohydrates	d) None of these										
to Acostation													

134. Penicillin is a: a) Hormone b) Antibiotic c) Antipyretic d) Vitamin 135. Antiseptic chloroxylenol is a) 4-chloro-3, 5-dimethyl phenol b) 3-chloro-4, 5-dimethyl phenol c) 4-chloro-2, 5-dimethyl phenol d) 5-chloro-3, 4-dimethyl phenol 136. Chloramphenicol is a) Narrow spectrum antibiotic b) Broad spectrum analgesic d) Broad spectrum antibacterial c) Broad spectrum antibiotic 137. Alizarin belongs to the class of a) Vat dyes b) Mordant dyes c) Basic dyes d) Reactive dyes 138. Morphine an alkaloid is: b) Analgesic c) Antiseptic d) Antibiotic a) Anaesthetic 139. Identify the wrong statement regarding alizarin: a) Alizarin was extracted from the roots of the madder plant b) Its chemical name is 1, 2-dihydroxy anthraquinone c) It is fixed to fabrics by using mordants like aluminium sulphate giving fast red colour d) It has red crystal soluble in alkalies and the solution imparts red colour to fabrics 140. Which of these is a hypnotic? a) Metaldehyde b) Acetaldehyde c) Paraldehyde d) None of these 141. The drug used as an antidepressant is: c) Mescaline d) Sulphadiazine a) Luminol b) Tofranil 142. Which one of the following is employed as a tranquillizer drug? a) Promethazine b) Valium c) Naproxen d) Mifeprestone 143. The drug, which is not a tranquillizer, is a) Ibuprofen b) Veronal c) Luminal d) Seconal 144. 2-acetoxybenzoic acid is used as a) Antimalarial d) Antipyretic b) Antidepressant c) Antiseptic 145. CH_3 CH_3COCI , $Py \longrightarrow X \frac{KMnO_4}{} Y$ The final product "Y" is medicine. Which of the following is incorrect regarding "Y"? a) It has analgesic as well as antipyretic properties b) It helps to prevent heart attack c) It has anti-blood clotting action d) It suppresses the gastric anomalies 146. A substance which can act both as an antiseptic and disinfectant is a) Aspirin b) Chloroxylenol c) Bithional d) Phenol 147. Drug which helps to reduce anxiety and brings about calmness is a) Tranquilliser b) Diuretic c) Analgesic d) Antihistamine 148. A drug that is antipyretic as well as analgesic is a) Chloropromazine hydrochloride b) para-acetamidophenol c) Chloroquin d) Penicillin 149. Which one of the following types of drugs reduces fever? a) Tranquiliser b) Antibiotic c) Antipyretic d) Analgesic 150. Thrust imparted to the rocket is governed by the: a) Third law of thermodynamics b) Gravitational law c) Newton's third law d) None of the above 151. Which is correct about saccharin?





- b) It is 600 times sweeter than sugar
- c) It is used as sweetening agent
- d) All of the above
- 152. Chemically aspirin is known as
 - a) Salicylic acid

b) Salicylaldehyde

c) 2-acetoxybenzoic acid

d) Phenyl salicylate

- 153. Benzalkonium chloride is a
 - a) Cationic surfactant and antiseptic.
 - b) Anionic surfactant and soluble in most of organic solvents.
 - c) Cationic surfactant and insoluble in most of organic solvents.
 - d) Cationic surfactant and antimalarial.
- 154. Aspartame is one of the good artificial sweeteners whose use is limited to cold foods and soft drinks
 - a) It has very low boiling point

b) It gets dissociated at cooking temperature

c) It is sweetener at low temperature

d) It is insoluble at higher temperatures

- 155. As ester used as medicine is
 - a) Ethyl acetate
- b) Methyl acetate
- c) Methyl salicylate
- d) Ethyl benzoate

- 156. Which of the following does not behave as a surfactant?
- b) Detergent
- c) Phospholipid
- d) Triglycerides

- 157. Which one is communicable disease?
 - a) Scurvy
- b) Diabetes
- c) Beri-beri
- d) Cholera

- 158. Which of the following is an alkaloid?
 - a) Nicotine
- b) Piperine
- c) Codeine
- d) All of these

- 159. The first viral disease detected in human being was:
 - a) Cold
- b) Influenza
- c) Small pox
- d) Yellow fever
- 160. Which is used for sterilization of water in water supply system of cities?
 - a) Chlorine
 - b) Sulphurdioxide
 - c) Potassium permanganate
 - d) DDT
- 161. The name of the organic compound DDT is:
 - a) Dichloro diphenyl toluene
 - b) Dichloro diphenyl trichloroethane
 - c) Diphenyl dichloro trichloroethane
 - d) Dichloro diphenyl thiosemicarbazide
- 162. What type of a propellant was used in rocket SLV-3 which was fired by India?
 - a) Solid propellant
 - b) Monomethyl hydrazine + Liquid N2O4
 - c) Unsymmetrical dimethyl hydrazine + Liquid N2O4
 - d) Liquid oxygen
- 163. Aspartame is a non-nutritive sweetener. Assuming that both, amide and ester bonds are hydrolysed in the stomach, the amino acids obtained is





- a) Physiotherapy
- b) Chemotherapy
- c) Elelctrotherapy
- d) Psychotherpy
- 180. Which of the following is a example of non-biodegradable detergent?

a)
$$CH_3$$
— $(CH_2)_{11}$ — SO_3Na
c) CH_3 — $CHCH_2$ — CH_3

- d) CH₃(CH₂)₁₀CH₂OSO₃Na
- 181. The insecticide, germicide, gammexane is a formulation for:
 - a) DDT
 - b) Benzene hexachloride
 - c) Hexachlorobenzene
 - d) Chloral
- 182. The structure given below is known as

$$CH_2$$
 CH_3
 CH_3
 CH_3
 $COOH$

- a) Penicillin-F
- b) Penicillin-G
- c) Penicillin-K
- d) Ampicillin

- 183. Which of the following is used as an antioxidant is food?
 - a) BTX
- b) BHT
- c) BHC
- d) All the three

- 184. Amoxycillin is semi-synthetic modification of
 - a) Penicillin
- b) Streptomycin
- c) Tetracycline
- d) Chloramphenicol

- 185. 'Placedo' is often given to patients. It is:
 - a) An antidepressant
 - b) A broad spectrum antibiotic
 - c) A sugar pill
 - d) A tonic
- 186. Choose the correct statement
 - a) Saccharin is 650 times sweeter than sugar
- b) Aspartame is 550 times sweeter than sugar
- c) Sucralose is 160 times sweeter than sugar
- d) Alitame is 2000 times sweeter than sugar
- 187. The pH value of gastric juice in human stomach is about 1.8 and in the small intestine it is about 7.8. The pK_a value of aspirin is 3.5. Aspirin will be
 - a) Completely ionized in the small intestine and in the stomach.
 - b) Unionized in the small intestine and in the stomach.
 - c) Ionized in the small intestine and almost unionized in the stomach.
 - d) Ionized in the stomach and almost unionized in the small intestine.
- 188. Which of the following is a double base propellant?
 - a) Methyl nitrate and nitromethane
- b) Nitroglycerine and nitrocellulose

c) Kerosene and alcohol

d) Acrylic rubber and liquid N2O4

- 189. Which is correct about vanillin?
 - a) A flavouring agent having vanila flavour
 - b) o-hydroxy-m-methoxy benzaldehyde
 - c) A food additive
 - d) All of the above
- 190. Indigo shows cis-trans isomerism. Which is the stable form of indigo?
 - a) Cis

- b) Trans
- c) Either cis or trans
- d) Both (a) and (b)

- 191. The hybrid rocket propellant consists of
 - a) Acrylic rubber and liquid nitrogen tetraoxide.
- b) Polyurethane and ammonium perchlorate.
- c) Nitroglycerine and nitrocellulose.
- d) Liquid hydrogen and liquid oxygen.





192. 2,4-dichloro phenoxyace	etic acid is used as a:											
a) Fungicide	b) Insecticide	c) Herbicide	d) Moth repellent									
193. A space rocket is propel	led by:											
a) An automobile engine	b) Rocket propellant	c) Nuclear submarine	d) Steam engine									
194. Paracetamol is a/an												
a) Antipyretic	b) Analgesic	c) Both (a) and (b)	d) Antimalarial									
195. Malachite green is a dire	ect dye for silk and wool. It i	is prepared by condensing?										
a) Benzaldehyde and di	methyl aniline											
b) Carbonyl chloride and	d dimethyl aniline											
c) Benzene diazonium c	hloride with dimethyl anilii	ne										
d) None of the above												
196. A large number of antibi	iotics have been isolated fro	om:										
 a) Bacteria actinomycet 	es											
b) Acids												
c) Alkanals												
d) Bacteria rhizobium												
197. Which of the following is	s not an analgesic?											
a) Ibuprofen		b) Dichlofenac sodium										
c) Naproxen		d) Ofloxacin										
198. Veronal, a barbiturate d	rug is used as:											
a) Anaesthetic	b) Sedative	c) Antiseptic	d) None of these									
199. Amphetamine is used as												
a) Anaesthetic	b) Antidepressant	c) Antimalarial	d) Analgesic									
200. Which of the following is												
a) Saffron	b) Carotene	c) Tetrazine d) Melamine										
201. Which of the following represents a synthetic detergent?												
a) C ₁₅ H ₃₁ COOK		b) CH ₃ (CH ₂) ₆ COONa										
c) C ₁₂ H ₂₅ ——SO	₃Na	d) All of the above										
		2-2										
202. Which of the following is			15 m - 7 m									
a) Erythromycin	b) Tetracycline	c) Chloramphenicol	d) Penicillin									
203. Chemically heroin is		13.14										
a) Morphine diacetate		b) Morphine monoacetat										
c) Morphine dibenzoate		d) Morphine monobenzoate										
204. Interferon is:	13.44	30111	D.O. 61									
a) Tonic	b) Virus	c) Carbohydrate	d) Ore of iron									
205. Barbituric acid is used a		3.4	D. A									
a) An antipyretic	b) An antiseptic	c) An antibiotic	d) A tranquiliser									
206. Sulphaguanidine is used		2.4.2.2.2	15 4									
a) Dysentery	b) Urinary infections	c) Antiseptic	d) Antipyretic									
207. Sulpha drugs are deriva		1-2 (-1-1										
a) Benzenesulphonic ac	IQ	b) Sulphanilic acid										
c) Sulphanilamide		d) <i>p</i> -aminobenzoic acid										
208. A drug that is antipyreti	c as well as analgesic is	h) Dominillin										
a) Chloroquine		b) Penicillind) Chloropromazine hydrochloride										
c) Paracetamol	ch halongs to the estagement		ocmoriae									
209. Measles is a disease which belongs to the category of: a) Bacterial disease b) Viral disease c) Veneral disease d) Protozoan disease												
the state of the s			The strategic property and series are experiently between the first and different									
210. For the preparation of a detergent " A " (given below) from benzene, the following steps are involved												

I.
$$\xrightarrow{RCH=CH_2}$$

II. $\xrightarrow{H_2SO_4/SO_3}$

III. \xrightarrow{NaOH}
 $RCH \longrightarrow CH_3$
 (A)

These steps should be in sequence

- a) I, II, III
- b) II, I, III
- c) II, III, I
- d) I, III, II
- 211. Which of the following is used as an oxidiser in rocket propellants?
 - a) Kerosene
- b) Nitric acid
- c) Liquid oxygen
- d) Liquid hydrogen

- 212. H₂O₂ used in rocket has the concentration
 - a) 50%
- b) 70%
- c) 30%
- d) 90%

- 213. Aspirin is obtained by the reaction of CH₃COCl with:
 - a) Phenol
 - b) Benzoic acid
 - c) Salicylic acid
 - d) Benzaldehyde
- 214. Which of the following compounds is used as broad spectrum antibiotics?
 - a) Ampicillin
- b) Penicillin G
- c) Penicillin K
- d) Tetracycline

- 215. The detergent which is used as a germicide is
 - a) Sodium lauryl sulphate

b) Cetyltrimethyl ammonium chloride

c) Lauryl alcohol ethoxylate

- d) Sodium-2-dodecylbenzenesulphonate
- 216. Antiseptic are different from disinfectants as
 - a) Antiseptic merely inhibit the growth and disinfectant kill the microorganism
 - b) Antiseptic are used against microorganism while disinfectants are used against insects
 - c) Antiseptic are used only over skin while disinfectants can be taken orally also
 - d) Antiseptic are used over living tissues while disinfectants cannot be used over living tissues
- 217. A drug effective in the treatment of pneumonia, bronchitis, etc., is:
- b) Chloramphenicol
- c) Penicillin
- d) Sulphaguanidine

218. The correct structure of the drug paracetamol is



$$d)$$
 CI— $\left\langle \bigcirc \right\rangle$ — $COCH_3$

- 219. Phenacetin is used as
 - a) Antipyretics
- b) Antiseptics
- c) Analgesic
- d) Antimalarials

- 220. Acetoxybenzoic acid is
 - a) Antiseptic
- b) Aspirin
- c) Antibiotic
- d) Mordant dye

- 221. Which one among the following is not an analgesic?
 - a) Ibuprofen
- b) Naproxen
- c) Aspirin
- d) Valium

- 222. Streptomycin is effective in the treatment of:
 - a) Tuberculosis
- b) Malaria
- c) Typhoid
- d) Cholera

- 223. The drug used to bring down fever are known as
 - a) Analgesic
- b) Antibiotic
- c) Antipyretic
- d) Sulpha drugs
- 224. A certain dye was prepared from a plant grown on a large scale in India. Name the dye:
 - a) Malachite green
- b) Congo red
- c) Indigo
- d) turmeric
- 225. Which of these is not used as a fuel in the rocket propellants?





a) Liquid He b) Liquid hydrogen c) Kerosene d) Liquid hydrazine 226. Penicillin is a/an a) Hormone b) Antibiotic c) Antipyretic d) Analgesic 227. Which of the following is used in rocket propellants? b) $0_2(l)$ d) All of these a) $H_2(l)$ c) $N_2H_4(l)$ 228. The reagent (s) used in the preparation of aspirin from salicylic acid a) SOCl₂, pyridine b) (CH₃CO)₂O, H c) CH₃CO₂H, HCl d) CH3Cl, AlCl3 229. To which class of dyes does phenolphthalein belong? a) Azo dyes b) Nitro dyes c) Triphenyl methane dyes d) Phthalein dyes 230. Which is the wrong statement with regards to Indigo? a) Indigo was extracted in India from plants of the 'Indigo ferra' group b) The chemical structure of Indigo was determined by Baeyer, a German chemist who also synthesized it c) Indigo is a dark blue solid soluble in water giving a blue solution d) Indigo is fixed to fabrics by the vat process 231. Luminal, a barbiturate drug is used as a/an a) Antihistamine b) Sedative c) Antiseptic d) Antimalarial 232. Which of the following represents an analgesic? c) Novalgin d) All of these a) Equanil b) Quinine 233. Which of the following is an anionic detergent? b) CH₃(CH₂)₁₆ + (CH₃)₃Cla) CH₃(CH₂)₁₆CH₂OSO₃Na c) $CH_3(CH_2)_{16}COO(CH_2CH_2O)_nCH_2CH_2OH$ d) C₆H₅SO₃Na 234. Aspirin, an antipyretic drug is chemically: a) Methyl salicylate b) Ethyl salicylate c) Acetyl salicylic acid d) o-hydroxy benzoic acid 235. The group commonly present in synthetic detergents is a) HCOONa b) RONa c) RCOONa d) RC₆H₄SO₃Na 236. Oil of winter green and salol are the esters of: b) Lactic acid c) Acetic acid d) Sulphanilic acid a) Salicylic acid 237. Compound A given below is OCOCH₃ COOH d) Pesticide a) Antiseptic b) Antibiotic c) Analgesic 238. An anaesthetic is d) Cibazol a) Procaine b) Chloramphenicol c) n-hexyl resorcinol 239. The functional groups present in 'salol' are a) — NH_2 and — ORb) — OH and — CORc) - NH₂ and - COOH d) — OH and — COOR240. An example of a psychedlic agents is a) DNA b) LSD c) DDT d) TNT 241. Anti-allergy drugs are



a) Antimicrobials

b) Antihistamines

d) Antifungals

d) Louis Pasteur

242. Pencillin was first discovered by

a) Alexander Fleming

b) Tence and Salke

243. Tincture of iodine is

a) Aqueous solution of I₂

c) Alcoholic solution of I2

244. Which detergent can cause maximum pollution?

a)
$$CH_3CH(C_4H_9) - CH_2CH_2CH(C_4H_9)(CH_2)_3$$

 $CH(C_4H_9)CH_2CH_2SO_3Na$

245. Which among the following is not an antibiotic?

b) CH₂(CH₂)₁₁-

d) Tetracycline

-SO₃Na

246. Which of the following statements is not true?

a) Some disinfectants can be used as antiseptic at low concentration

b) Sulphadiazine is a synthetic antibacterial

c) Ampicillin is natural antibiotic

d) Aspirin is analgesic and antipyretic both

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a) Penicillin b) Oxytocin

c) Antivirals

c) S.A. Waksman

b) Solution of I2 in aqueous KI d) Aqueous solution of KI

c) Erythromycin

d) Detergents are always pollution free

CHEMISTRY IN EVERYDAY LIFE

: AN	ISWI	ER KE	Y :												
V.		1202	5526	920	25	502	-			0.0766		1,670,183	150		- 40 80
1)	a	2)	b	3)	b	4)	d	129)	a	130)	С	131)	d	132)	b
5)	b	6)	b	7)	а	8)	a	133)	b	134)	b	135)	a	136)	C
9)	d	10)	d	11)	b	12)	C	137)	b	138)	b	139)	d	140)	C
13)	c	14)	a	15)	C	16)		141)	b	142)	b	143)	a	144)	d
17)	b	18)	d	19)	a	20)		145)	d	146)	d	147)	a	148)	b
21)	С	22)	d	23)	c	24)		149)	C	150)	c	151)	d	152)	c
25)	d	26)	b	27)	b	28)		153)	a	154)	b	155)	c	156)	d
29)	b	30)	a	31)	d	32)		157)	d	158)	d	159)	d	160)	b
33)	a	34)	d	35)	a	36)	b	161)	b	162)	a	163)	С	164)	a
37)	b	38)	d	39)	c	40)	C	165)	d	166)	d	167)	b	168)	c
41)	C	42)	С	43)	b	44)	a	169)	a	170)	C	171)	C	172)	a
45)	b	46)	d	47)	b	48)		173)	d	174)	C	175)	d	176)	b
49)	b	50)	b	51)	C	52)		177)	C	178)	C	179)	b	180)	C
53)	b	54)	C	55)	a	56)	b	181)	b	182)	b	183)	b	184)	a
57)	C	58)	a	59)	a	60)	c	185)	C	186)	d	187)	C	188)	b
61)	a	62)	b	63)	b	64)	a	189)	d	190)	b	191)	d	192)	c
65)	C	66)	b	67)	b	68)	b	193)	b	194)	a	195)	a	196)	a
69)	b	70)	d	71)	b	72)	a	197)	d	198)	b	199)	b	200)	C
73)	C	74)	b	75)	C	76)	C	201)	C	202)	d	203)	a	204)	b
77)	a	78)	C	79)	a	80)	a	205)	d	206)	a	207)	C	208)	c
81)	a	82)	C	83)	b	84)	a	209)	b	210)	a	211)	b	212)	d
85)	c	86)	c	87)	b	88)	c	213)	c	214)	b	215)	b	216)	d
89)	b	90)	d	91)	b	92)	a	217)	C	218)	b	219)	a	220)	b
93)	a	94)	d	95)	d	96)	b	221)	d	222)	a	223)	c	224)	c
97)	b	98)	c	99)	a	100)	b	225)	a	226)	b	227)	d	228)	b
101)	c	102)	d	103)	d	104)	b	229)	d	230)	C	231)	b	232)	c
105)	d	106)	d	107)	c	108)	a	233)	a	234)	C	235)	d	236)	a
109)	a	110)	b	111)	b	112)	d	237)	C	238)	a	239)	d	240)	b
113)	d	114)	c	115)	c	116)	c	241)	b	242)	a	243)	c	244)	a
117)	a	118)	b	119)	a	120)	d	245)	b	246)	C				
121)	c	122)	C	123)	C	124)	c	300							
125)	c	126)	c	127)	c	128)	b								
		STOREST IN		1: 15: 31 to 15: 51		1.00 7.00									

CHEMISTRY IN EVERYDAY LIFE

: HINTS AND SOLUTIONS:

3 **(b)**

Basic dyes contain NH_2 or— NR_2 group as colour bearing groups or colour enhancing groups. They are generally used for wool, cotton, leather, paper, polyester, nylon, etc., e. g., aniline yellow, crysodine G, Butter yellow, malachite green, etc.

4 (d) Rest all are antibiotic.

5 **(b)**

Fluorescein is obtained by the reaction of phthalic anhydride and resorcinol.

6 **(b)**

Erythromycin is a bacteriostatic (inhibits the growth of organisms).

7 (a)

Methyl salicylate also known as oil of winter green is used as medicine iodex in treatment of rheumatic pains and remedy for aches, sprains and bruises.

8 (a)

Tranquilizers reduce anxiety and tension. They are also called psychototropic drugs. These are of two types: (a) Sedative: The drugs used for violent and mentally agitated patients e.g., equanil and diazepam. (b) Antidepressent: The drugs are used to patients who are highly depressed and lose self confidence e.g., tofranil, vitalin, amphetamines, etc.

9 (d)

Methyl orange is yellow in alkaline medium and red in acid medium.

10 **(d)**Eosin is red dye.

11 (b)

Vat dyes are soluble in water and cannot directly applied. It is reduced to soluble colourless leuco form by an alkaline reducing agent. *E.g.*,

indigo (blue, water insoluble)

OH

C

C

C

C

II

indigo (white leuco insoluble)

14 (a) Follow text.

15 **(c)** Follow text

16 (a)

These drugs produce sleep and are habit forming. Common examples of hypnotic drugs are luminal and saconal.

17 **(b)**

Antiseptics drugs cause destruction of microorganisms, which produce, septic diseases, e.g., dettol, savlon, acriflavin, boric acid, phenol, iodoform, KMnO₄ and some dyes such as chloramines-T, methylene blue.

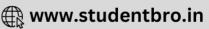
19 **(a)**An antibiotic for cure of TB.

22 (d)

Bithional is added to soap to impart antiseptic properties. It is reduces odours produced by bacterial decomposition of organic matter on the skin.

23 (c) cis isomer of $Pt(NH_3)_2Cl_2$ is used as an anticancer drug.

24 (d)



Saccharin is 110 times sweeter than sugar. Aspartame is 180 times sweeter than sugar Sucralose is 650 times sweeter than sugar

25 (d)

A propellant is a combination of an oxidizer and a fuel. Among the given only ammonium perchlorate is used as a fuel in rocket propellant.

27 **(b)**

Group (-COO⁻) at one end and on other end, it has Na⁺ ions, thus cationic micelle is formed. Sodium acetate forms cationic micelles above a certain concentration. In the molecule of detergents and soap, the negative ions aggregate to form a micelle of colloidal size. In polar medium (like water), the negative ion has a long hydrocarbon chain and a polar.

28 **(c)** It is a fact.

30 (a)

Bithional is disinfectant which is generally added to medicated soap to reduce the odour produced by bacterial decomposition of organic matter on the skin.

31 **(d)**

___do___

32 (c)

Chloramphenicol is broad spectrum drug, used in treatment of typhoid, dysentery, acute fever, meningitis pneumonia and certain forms of urine infection.

33 (a)

Hybrid propellants these are the propellants which consists of solid fuel and a liquid oxidizer. For example, liquid N_2O_4 (liquid oxidizer) and acrylic rubber (solid fuel).

34 **(d)**

A dye molecule is made up of two different parts (i) Chromophore (Greek: chroma = colour, phoros = bearing) and (ii) Auxochromes (Greek: auxo = increase, chroma = colour). The groups which produce colour in a compound, i.e., chromophores are usual unsaturated groups like nitro, nitroso, azo, azoxy, carbonyl and olefinic

bonds. Auxochromes are usually acidic / basic functional groups like —OH, —COOH, —SO₃H, — NH₂,—NH*R*, —NR₂.

A compound containing only a chromophore may be a coloured material but not a dye, e.g., azobenzene is red coloured but not a dye whereas *p*-aminoazobenzene (aniline yellow) is a dye.

35 (a)

Lindane or gammexane is γ -isomer of BHC.

36 **(b)**

It was MIC or methyl isocyanate.

38 (d)

Dettol (antiseptic) is a mixture of 4.8% chloroxylenol +9.9% terpineol and absolute alcohol.

39 **(c)** It is a fact.

40 (c)

It is antibiotic — a chemical substance produced or derived from living cells which is capable of inhibiting the life processes or even destroying microorganisms.

41 (c)

It is used as antithistamine drugs.

44 (a)

The given structure is of histamine that acts as a neurotransmitter and vasodilator.

45 **(b)**

Every surfactant contains two parts viz a hydrophobic part and a hydrophilic part. The compound $CH_3(CH_2)_{14}CH_2NH_2$ contains only hydrophobic part but no hydrophilic part, hence it is not a surfactant

46 (d)

Sulpha drugs (antibacterial and non-antibiotic) are group of drugs which are derivative of sulphanilamide.

47 **(b)**

Follow text

48 (a)

Antiseptic drugs cause destruction of microorganisms that produce septic diseases, e.g., dettol, savlon, acriflavin, boric acid, phenol, iodoform, KMnO₄and some dyes such as chloramine-T, methylene blue, genatian violet.

49 (b)



Acetyl salicylic acid is also called acetoxy benzoic acid (aspirin).

51 **(c)**

Chloramphenicol is broad spectrum drug, used in the treatment of typhoid, dysentery, acute fever, meningitis, pneumonia and certain forms of urine infections.

53 **(b)**

Fluorescein is an example of phthalein dye.

54 (c)

Tranquillizers reduce anxiety and tension. They are also called psychototropic drugs. These are of two types: (a) Sedative: The drugs used for violent and mentally agitated patients e.g., equanil and diazepam. (b) Antidepressant: The drugs are used to patients who are highly depressed and lose self confidence e.g., tofranil, vitalin, amphetamines, etc.

56 **(b)**

It is antimalarial drug.

57 (c)

Biliquid propellant: A double base propellant is a high strength, high modulus gel of cellulose nitrate (gun cotton) in glyceryl trinitrate or a similar solvent.

60 (c)

In baby talcum powders, boric acid is used as antiseptic

62 **(b)**

The safest and the most common alternative of sugar is aspartame.

63 **(b)**

Direct dyes stick to the fibre through hydrogen bonding. They belong to the class of azo dyes. They are used to dye the fabric directly by placing it in hot aqueous solution of the dye, e.g., Martius yellow, congo red, etc.

64 **(a)**

Salol is phenyl salicylate; used as antiseptic.

65 **(c)** Follow text.

66 (b)

Vat dyes are insoluble compounds which upon reduction give soluble (leuco form) product. The product may be either coloured or colourless and have affinity for specific fabrics, e.g., indigo.

68 **(b)**

Follow text.

70 (d)

The structure of an important antipyretic, paracetamol is

OH NHCOCH₃

So, *p*-amino phenol gives paracetamol on acetylation.

71 **(b)**

Dyes are the natural or synthetic chemicals used to impart colour to fabrics, plastics, paper, etc. including food items for their pleasant appearance. Alizarin (orange-red) is extracted from the root of madder plant; also synthesised now-a-days.

73 (c)

It $(C_{17}H_{21}O_4N)$ is an alkaloid, a local anaesthetic but dangerous habit forming drug.

75 (c)

Rest all are antipyretic. Barbituric acid is tranquillizer.

76 (c)

Ingrain or developed dyes are those which are synthesised directly on the fabric, *e.g.*, azo dyes. Ingrain dyeing is particularly suitable for cotton fabric.

77 (a)

Which is acetylated product of salicylic acid(o-hydroxy benzoic acid).

78 (c)

Ampicillin is a synthetic antibiotic.

79 (a)

The process is called lake.

80 (a)



Cationic detergents are quaternary ammonium salts, containing long chain alkyl groups and possess germicidal properties

82 **(c)**

It is an insecticide.

84 (a)

Liquid propellants: These include fuels such as kerosene, alcohol, hydrazine or liquid hydrocarbon mixed with an oxidiser such as liquid oxygen, dinitrogen tetraoxide (N_2O_4) or nitric acid. These are also classified into two categories:

- (i) Monopropellants: The single liquid compounds used as propellants are those which decompose on heating to give out gases.
- (ii) Biliquid propellants: Biliquid propellant: A double base propellant is a high strength, high modulus gel of cellulose nitrate (gun cotton) in glyceryl trinitrate or a similar solvent.
 Following are the combinations of liquid propellants and oxidisers

(supporter of combustion) usually used:

- (i) Synthetic rubber or cellulose based compounds and liquid oxygen.
- (ii) Liquid hydrogen and liquid oxygen.
- (iii) Kerosene and liquid oxygen.
- (iv) Hydrazine and nitric acid.
- (v) Methyl hydrazine and dinitrogen tetraoxide. $\begin{array}{ccc} 4CH_4NHNH_2 & + & 5N_2O_4 & \longrightarrow \\ Methyl \ hydrazine & & Dinitrogen \ tetraoxide \\ \end{array}$ $\begin{array}{ccc} 4CO_2 + 9N_2 + 12H_2O. & \\ N_2H_4 + O_2 & \longrightarrow N_2 + 2H_2O; \ \Delta H = - Heat. \end{array}$

85 fc

Sodium alkyl benzene sulphonate is used as detergent.

87 **(b)**

- (i) Congo red is direct dye.
- (ii) Alizarin is anthraquinone dye.
- (iii) Aniline black is an ingrain dye. The last process of dyeing is done on fabric for such dyes.
- 88 (c)

Oral contraceptive drug contain mestranol (anestrogen) and norethindrone (a progesterone derivative)

89 (b)

A psychedelic drug produce visual and auditory hallucinations, e.g., lysergic acid diethyl amide (LSD) and mescaline.

90 (d)

All are insecticides.

91 (b)

Analgesics are used for getting relief from pain

92 (a

0.2 persent solution of phenol is used as an antiseptic

93 (a)

Acid dyes are characterised by the presence of — COOH, —SO₃H or phenolic group. They are applied in the presence of acidic solutions. They are usually applied to wool, silk, nylon. They have affinity for cotton. Common examples are, Orange-I, Orange-II, Methyl red, Methyl orange, etc.

94 (d)

It is main constituent of dettol, which is an alcoholic solution of it.

95 (d)

The energy is provided by propellant.

96 (b)

It is acetyl salicylic acid, i.e., aspirin, analgesic and antipyretic.

98 (c)

The energy of a propellant is measured in terms of a specific impulse, l_s , inside the motor of the rocket. It depends upon the flame temperature and average molecular mass of the gaseous products coming out of the rocket nozzle. The specific impulse is given by the following relationship with the average molecular mass M and the flame temperature, T.

$$I_S = \sqrt{(T/M)}$$

99 (a)

Due to anti-blood clotting action of aspirin, it is used to prevent heart attack

100 (b)

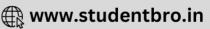
Equanil, valium are a tranquilizer and is used for the treatment of stress and mental disease.

101 (c)

Trimethyl stearyl ammonium bromide is known as invert soap.

103 (d)

All are dyes.



104 (b)

Cancer is molecular disease.

106 (d)

A dye molecule is made up of two different parts (i) Chromophore (Greek: chroma = colour, phoros = bearing) and (ii) Auxochromes (Greek: auxo = increase, chroma = colour). The groups which produce colour in a compound, i.e., chromophores are usual unsaturated groups like nitro, nitroso, azo, azoxy, carbonyl and olefinic bonds. Auxochromes are usually acidic / basic functional groups like —OH, —COOH, —SO₃H, —NH₂,—NHR, —NR₂.

A compound containing only a chromophore may be a coloured material but not a dye, e.g., azobenzene is red coloured but not a dye whereas p-aminoazobenzene (aniline yellow) is a dye.

107 (c)

Arsenic drugs are poisonous for syphilis.

109 (a)

Broad spectrum antibiotics are effective against several different type of bacteria, *eg*, chlorophenicol is rapidly absorbed from the gastrointestinal tract and hence can be given orally in case of typhoid, dysentry, Acute fever, certain form of urinary infections, meningitis and pneumonia

111 **(b)**

Barbital or varonal is a sleep producing, *ie*, hypnotic tranquillizer. It is used in sleeping pills and cause addiction

113 (d)

Among the given antibiotics, only chloroamhenicol contains a nitro group attached to aromatic ring

115 (c)

___do___ 117 **(a)**

Composite propellants: These consist of polymeric binder, like polyurethane or polybutadiene, (used as a *fuel*) and ammonium perchlorate (used as an *oxidiser*). The performance of these propellants can be

enhanced by using additives like aluminium or magnesium the finely divided form with the fuel.

118 (b)

Disparlure is a pheromone that attracts insects.

119 (a)

Vat dyes are insoluble compounds which upon reduction give soluble (leuco form) product. The product may be either coloured or colourless and have affinity for specific fabrics, e.g., indigo.

120 (d)

Chloroamphenicol is broad spectrum antibiotic.

121 (c)

Boric acid is mild antiseptic, chloramphenicol is an broad spectrum antibiotic and aspirin is an analgesic as well as antipyretic

122 (c)

The name of given compound is acetyl salicylic acid which is also known as aspirin, a well known analgesic

123 (c)

Follow text.

126 (c)

Cetyltrimethyl ammonium chloride is a cationic detergent. It is used to prepare cosmetics because it possesses germicidal properties.

127 (c)

Disperse dyes 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 fibre. Celliton fast pink B and celliton fast blue B are common examples.

128 (b)

Heroin is acyl derivative of morphine.

129 (a)

Soaps are the sodium or potassium salt of higher fatty acids, e.g., $C_{17}H_{35}COOK$ (potassium stearate). These are obtained by alkaline hydrolysis of oils and fats. The reaction is called saponification.

131 (d)

A refrigerant is used for cooling purposes. This class includes freons.

132 (b)

Tranquilisers are the drugs which used to relieve mental ailments. These are also known as psychotherapeutic drugs as they act on the central nervous system.

134 (b)

It is a fact.





136 (c)

Broad spectrum antibiotics are the antibiotic which are effective against several type of harmful microorganisms. Tetracycline, chloromycetin and chloramphenicol are the common examples of broad spectrum antibiotics. Chloramphenicol is rapidly absorbed from the gastro-intestinal tract and hence, can be given orally. These can be used for curing typhoid, acute fever, dysentery, whooping cough etc.

137 (b)

Alizarin is mordant dye. Alizarin gives a bright red colour with aluminium and a blue colour with barium.

138 (b)

Morphine is an alkaloid-a class of organic compounds, of basic nature of plants origin containing at least one nitrogen atom in a ring structure of molecule, is analgesic.

139 (d)

Follow text.

141 (b)

Tranquillizers reduce anxiety and tension. They are also called psychototropic drugs. These are of two types: (a) Sedative: The drugs used for violent and mentally agitated patients e.g., equanil and diazepam. (b) Antidepressant: The drugs are used to patients who are highly depressed and lose self confidence e.g., tofranil, vitalin, amphetamines, etc.

142 (b)

The anaesthetics produce temporary insensitibility to the vital function of all types of cells, specially of nervous systems and are used during surgical operations. These are classified as (i) General anaesthetic: producing

unconsciousness all over the body, e.g., N2O, cyclopropane, sodium pentothal, ether and chloroform and (ii) Local anaesthetic: Affect only the part of body, e.g., xylocaine, ethylchloride, procaine, etc.

143 (a)

Ibuprofen is analgesics drug

144 (d)

The structure of 2-acetoxy benzoic acid is as follows

It is commonly called aspirin, which is used as analgesic as well as antipyretic

146 (d)

Aqueous solution of phenol is used as an antiseptic as well as disinfectant

149 (c)

Antipyretic drugs reduce fever. Analgesic relieves in pain, antibiotics act against bacterial infections while tranquilisers are used against mental disorders.

150 (c)

It is based on Newton's third law.

151 (d)

All are characteristics of saccharin.

153 (a)

Benzalkonium chloride, also known as alkyl dimethyl benzyl ammonium chloride is nitrogenous. Cationic surfactant and it is used as a antiseptic.

n=8,10,12,14,16,18

154 (b)

Aspartame gets dissociated at cooking temperature

157 (d)

TB, cholera, etc., are communicable diseases.

158 (d)

All these are alkaloids.

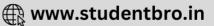
159 (d)

Yellow fever was the first viral disease detected in human being.

160 (b)

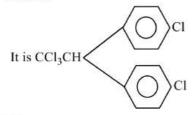
SO2 acts as oxidant.





161 (b)

DDT is an insectioide, *i. e.*, the drug which kills insects,



162 (a)

Some rocket fuels are given below:

1. Saturn booster rocket : Kerosene + LiquidO₂ for initial stage, liquid O₂+Liquid H₂ for

higher stage.

2. Titan ballistic missile : Hydrazine $+N_2O_4$

3. Space shuttle : Liquid H₂+Liquid O₂

4. Proton (Russian rocket): Kerosene + Liquid

5. SLV (Space launch : Solid propellant vehicle) and ASLV (Augmented space

launch vehicle)

6. PSLV (Polar space : Solid propellant in $1^{\rm st}$ and $3^{\rm rd}$ stage and biliquid propellant launch vehicle –an Indian like N_2O_4 +Unsymmetrical dimethyl hydrazine (UDMH) in the

rocket recently launched) second stage and N_2O_4+ Monomethyl hydrazine in the fourth stage

164 (a)

A mordant is any substance which can be fixed to the fibre and which can be dyed later on. Mostly hydroxides or basic salts of chromium, aluminium and iron are used as mordants. A dye which imparts different colours in the presence of different mordants is referred to as a mordant dye, e.g., alizarin is a mordant dye. When mordanted with aluminium salt solution, it imparts rose-red colour to fabric but the same fabric is dyed blue when it is mordanted with barium salt and it dyes violet is mordant with ferric salt.

165 (d)

Phenol is antiseptic as well as disinfectant (Kills bacteria).

166 (d)

Sodium alkyl sulphate is an anionic detergent as it gives anion which acts as surfactant.

$$RCH_2 - SO_3Na \rightarrow RCH_2 - SO_3^- + Na^+$$

Sodium alkyl anionic part sulphate

168 (c)

Liquid hydrogen and liquid oxygen are good fuel.

169 (a)

Heroin is not a tranquillizer, it is a narcotic analgesic

171 (c)

Cationic detergents are also called invert detergents. Tri methyl cetyl ammonium bromide, being a quaternary ammonium salt is a cationic detergent

173 (d)

Bacteriostatic drugs inhibit the growth of organism while bactericidal drugs kill the microorganisms

174 (c)

Biliquid propellant: A double base propellant is a high strength, high modulus gel of cellulose nitrate (gun cotton) in glyceryl trinitrate or a similar solvent.

177 (c)

C₁₀H₁₇OH (Geraniol) a liquid terpene alcohol forms ester of rose odour with HCOOH.

178 (c)

It is a bacterial disease.

179 (b)

A branch of science which deals with treatment of diseases using suitable chemical is known as chemotherapy

180 (c)

Branched alkyl groups are not dissociated easily and that's why such compounds are non-biodegradable

181 (b)

γ-isomer of BHC is called gammexane.

185 (c)

It is a fact.

187 (c)

Aspirin is a moderate $acid(pK_a = 3.5)$, hence is almost unionized in stomach due to strong acidic medium of it (because of HCl). It is due to common ion effect.

While in small intestine, the medium is alkaline, hence aspirin will be sufficiently ionized in small intestine.

188 (b)

The molecules which contain both the oxidizer and the fuel elements in the same molecule are called double base propellants, *e.g.*, nitroglycerine





and nitrocellulose. In this nitrocellulose gels in nitroglycerine and sets to a solid mass.

189 (d)

All are characteristics of vanillin.

190 (b)

Trans form of indigo is more stable.

191 (d)

$$Sr^{2+}$$
 – red

Alizarin is a mordant dye. It gives different colour to the fabric with different metal ions.

192 (c)

It is herbicide (kill herbs).

Rocket propellant are used as fuel for space rockets.

194 (a)

Paracetamol is an antipyretic. It is used to lower the temperature of the body in high fever.

195 (a)

Follow preparation of malachite green.

196 (a)

It is a fact.

197 (d)

Ofloxacin is used as antibiotic

198 (b)

It is a fact.

199 (b)

Amphetamine is used as antidepressant drug.

Interferon is a virus present in animal cells.

Barbituric acid is used as a tranquilizer.

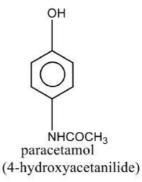
206 (a)

It is used for dysentery.

207 (c)

Sulpha drugs are derivative of sulphanilamide

Analgesic drugs are used in relieving pain while antipyretic drugs are used to control fever. Paracetamol is wideley used as an antipyretic as well as analgesic.



209 (b)

It is a fact.

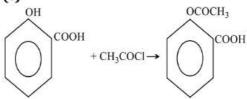
211 (b)

Nitric acid is used as oxidiser in rocket fuel.

212 (d)

H₂O₂ is used as an oxidant for rocket fuel and has 90% concentration to be used in rockets.

213 (c)



This is acetyl salicylic acid.

Penicillin G is widely used as broad spectrum antibiotics.

215 (b)

Cationic detergents are used as germicides. Cationic detergents are usually quaternary ammonium salts. Thus, cetyltrimethyl ammonia chloride, a quaternary ammonium salt is a cationic detergent and used as a germicide

216 (d)

Antiseptics and disinfectants both inhibit and kill the microorganisms but disinfectants are not safe to apply over living tissues

217 (c)

Penicillin is an effective medicine for pneumonia disease.

218 **(b)**

The correct structure of drug paracetamol (4acetamidophenol) is (b).

219 (a)

Phenacetin is used as antipyretics.







221 (d)

Analgesics are used for relieving pain. Ibuprofen, naproxen, aspirin and diclofenac sodium all are examples of non-narcotic analgesics. Valium is used for relieving tension and mental stress, so it is a tranquillizer, not analgesic.

222 (a)

It is a very effective antibiotic for tuberculosis.

223 (c)

Analgesic these drugs relieve pains *e.g.*, novalgin, aspirin, etc. Antibiotic these drugs are produced by microorganisms and are capable of destroying other microorganisms. *e.g.*, penicillin etc. Antipyretic these drugs bring down the body temperature in high fever, *e.g.*, paracetamol, aspirin etc.

Sulpha drugs generally these drugs have antibacterial action, *e.g.*, sulphadiazine etc.

224 **(c)**

Indigo is obtained in India by plants.

225 (a)

Follow text.

227 (d)

All are fuels.

228 **(b)**

Aspirin (2-acetoxy benzoic acid) is an analgesic. It is obtained by acetylating salicylic acid with acetic anhydride and conc $\rm H_2SO_4$.

229 (d)

It belongs to phthalein dyes.

230 (c)

Indigo is a dark blue solid insoluble in water.

234 (c)

Aspirin an antipyretic is,
$$OCOCH_3$$
 $COOH$
 $i.e.$, acetyl salicylic acid,

i.e., a drug which is responsible for lowering the temperature of feverish organism to normal. Other antipyretic drugs are paracetamol, phenacetin.

236 (a)

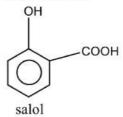
Phenyl salicylate is salol; methyl salicylate, etc.,

238 (a)

Anaesthetics are those drugs which are used to produce insensitivity *e.g.*, procaine, chloroform, westrosol etc.

239 (d)

The functional group present in salol are —OH and —COOR. Salol is phenyl salicylate. Its structure is as



243 (c)

Tincture of iodine is prepared by dissolving iodine and KI in water and making the solution with rectified spirit. So, it is alcoholic solution of I_2 .

244 (a)

Greater the branching, greater is the nonbiodegradability of a detergent. A nonbiodegradable detergent cause maximum pollution

245 (b)

Antibiotics are the chemical substances produced by microorganisms (bacteria, fungi, etc), that can inhibit the growth of other microorganisms, *e.g.*, penicillin, erythromycin, tetracycline, ofloxacin but oxytocin is a peptide hormone which is secreted by master gland.

