Chemistry in everyday life

List of concepts-

- 1. Therapeutic action of drugs
- 2. Chemicals in food
- 3. Cleansing agents

(A)Therapeutic action of drug:

	CAR	D-01			CARD-02			
1.	Which of the following	will you take during	1.	0.2 % phenol solution	is used as			
	allergy? (Paracetamol,	bromphenaramine)	2.	is a well-known antihistamine.				
2.	Pick up the bactericidal antibiotic-(penicillin,		3.	is also known as morning after pill.				
	Tetracyclin)			(mifepristone)				
3.	Which drugs relieves th	ne pain? (Analgesics,	4.	A mixture of synthetic	estrogen and progesterone			
٥.	Antipyretics)			derivatives is largely u	sed as			
4	Which is not a tranquili	izer? (Veronal, seconal,	5.	Disinfectants are used	on inanimate objects while			
4.	furacine)			are used	on living tissues.			
		D-03			CARD-04			
1.	Match the following:		1.	Match the following:				
	Column-1	Column-2		Column-A	Column-B			
	Antipyretic	Codeine		Dettol Dettol	Antiseptic for eyes			
	Analgesic- narcotic	Tincture of Iodine		lodine in alcohol-	Mixture of			
	Antibiotic			water mixture	chloroxylenol and			
		Aspirin	7 >	water mixture	terpineol			
	Antiseptic	1 % phenol		As Daris asid	Tincture of Iodine			
	Disinfectant	Chloramphenicol		Aq. Boric acid solution	Tincture of loane			
				Solution				
	CAR	D-05			CARD-06			
Q	State whether true o	r false.	Q	What is the action of	f following drugs on the			
1.	Analgesics lower dow	n body temperature.		human body-				
2.	Bromphenaramine ca	an act as both	1.	Luminal, seconal, Ve	ronal			
	antiallergic and anta	cid.	2.	Bromphenaramine, ¹	Terfenadine			
3.	Amoxicillin is a broad		3.	Ranitidine, cimetidin				
4.	The barbituric acid ac		4.	Ofloxacin, Amoxicilli	n, Penicillin			
5.	Aspirin is used in pre	vention of heart	5.	Mifeprestone, Noret	:hindrone, Novestrol			
	attacks.			· · ·	·			
(B)	Chemicals in food:		1					
\~ <i>I</i>								

CARD-01	CARD-02

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1.	The food additives used	d to prevent the	Q	State whether true or false.
	oxidation of food are called		1.	Sucrolose is trichloro derivative of sucrose.
2.	The feed of the second to the second the		2.	Alitame is not largely used because the control of
	spoilage of food due to	microbes are	3	sweetness of food is difficult.
3.	called		4.	Sucrolose provides calories.
3.	The food additives that	sweeten the food but		Salts of sorbic acid and propanoic acid used as
	do not add calorie are _			preservatives.
	CAR	D-03		CARD-04
	Match the following:		Q	Give reason for the following:
	Column-1	Column-2	1.	The people suffering from diabetes are advised
				to use artificial sweeteners.
	Antioxidant	Aspartame	2.	Aspartame is used in cold food items only.
	Preservative	Sugar	3.	Alitame is not much in use as artificial
			4.	sweetener.
	Artificial sweetener	Sodium benzoate		Antioxidants are generally reducing agents.
	Natural sweetener	ВНА		
	Artificial sweetener that breaks at cooking	Sucrolose		

(C)Cleansing agents:

` '						
	CARD-01		CARD-02			
1.	Chemically soaps are sodium or potassium salts of	1.	Match the following:			
2.	Chemically detergents are sodium or		Column-1	Column-2		
3.	potassium salts of is an example of		Cationic detergent	Sodium stearate		
	detergent.		Anionic detergent	Ester of stearic acid		
4.	is an example of soap. Among detergent and soap,		Non-ionic detergent	and Cetyltrimethyl ammonium bromide		
5.	Is better cleansing agent.		Soap	Sodium lauryl sulphate		
1	CARD-03		CARD-04			

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Q.	Give reason for the following:	Q	State whether true or false.
1.	Nowadays long chain hydrocarbon is	1.	Soap can be used in hard water.
	preferred over branched one to prepare	2.	Soaps are better cleansing agents than
2.	detergents.	3.	detergents.
3.	Detergents are preferred in hard water.	4.	Soap solution will turn blue litmus to red.
4.	Soaps form scum in hard water.		Soap is a biodegradable polymer.
	NaCl is used for precipitation of soap.		
<u> </u>			

Answers:

1. (Classi	fication Of Polymers		2					
CARE	0:01			CARE	:02		_		Y
NO	QUI	ESTIONS		NO	QUES	TION	S	Y	
I	Odo	d One Out		П	Match the following				
1	Poly	yesters(Mol.Forces)			Α			В	
2	Nyle	on-66(Sourse of formation)		1	Со-ро	olyme	ers	P۱	/C
3	Nyle	on-6(Mode of polymerization)		2	Homo	o-Poly	ymers	Ві	una-S
4	bak	elite(Thermoplastic polymers)		3	Therr	nolpl	astics	Te	eflon
				4	Therr	nose	ttings	Ва	akelite
	CAR	RD:03			CARD	:04		•	
Ш	Fill	in the Blanks		IV	Matc	h the	following		
1	:Bal	kelite	KY Y		Α	Α		В	
2	:Ure	ea-Formaldehyde	A	1	HDPE		Zi	egler- Natta	
3	:LDI	PE;		2	PHBV		Bi	o degradable	
4	: gly	/ptal		3	Natural rubber		Is	oprene	
				4	Poly a	amide	es	Co	ondensation
	CAR	RD:05			CARD:06				
٧	Tru	e or False		VI	True	True or False			
1	Tru	e		1	True	True			
2	Fals	se		2	True	True			
3	Tru	е		3	False	False			
4	Fals	se		4	True				
2. l	Uses	of Polymers					T		
	CARD:01				CARD :02				
ı		Match the following	ı		II Match the following				
		А	В				Α		В

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1	Teflon	Non-stick utensils	1	BUNA-S	Automobile		
					tyres.		
2	Bakelite	Electrical switches	2	Polyethen	e Insulators		
3	BUNA-N	Oil Seals,tank lining	3	PVC	Rain		
					coats,hand		
4	Melamine-formaldehyde	Unbreakable Crockery	4	PHBV	Specialty		
					Packaging		
	CARD:03			CARD:04			
III	Fill in the blanks		IV	Fill in the b	olanks		
1	Dacron		1	Vulcanisat	ion		
2	Polystyrene		2	Tyre rubbe	er		
3	Bakelite		3	Glyptal			
4	Neoprene		4	Polyprope	ne		
	CARD:05			CARD:06			
V	True of False		VI	True or Fa	lse		
1	False		1	True			
2.	True		2	True			
3.	True		3	False	False		
4	False		4	True			
3. Uses	of Polymers						
CARD:01		,		7			
	Column A	Column B			Column C		
	Polythene	Ethene CH ₂ =CH ₂			Insulator, ,Packing		
	Teflon(Poly	Tetrfluoroethene CF ₂ =C	CF ₂ Lubricant, Insula				
	Buna S	Buta-1,3-diene +	StyreneCH ₂ =CH- Automobile t				
	Buna N	Buta-1,3-diene + Acrylo	onitrile Oil seals, Tank lining				
CARD:02	•				<u> </u>		
	Name of the Polymer		Nan	ne of the Mo	onomers		
	Nylon 66		Hex	amethylene	diamine + Adipic		
	Nylon 6			rolactum			
	Bakelite			nol + Meth			
	Melamine		-		Methanal		
	PHBV (biodegradable)			·	oic acid + 3-		
	NA S SI I S			roxypentano			
	Nylon 2 – Nylon 6		Glyc	ine + Am	ino caproic acid		
	(biodegradable)			no 1 2 dial	L Donzono 1 4		
2	Terylene(Dacron)		Ethane-1,2-diol + Benzene-1,4-dicarboxylic acid				
CARD:03	1		uica	i boxylic acid			
III	Fill in the blanks:						
. 111	· ··· iii tiic bialiks.		1				

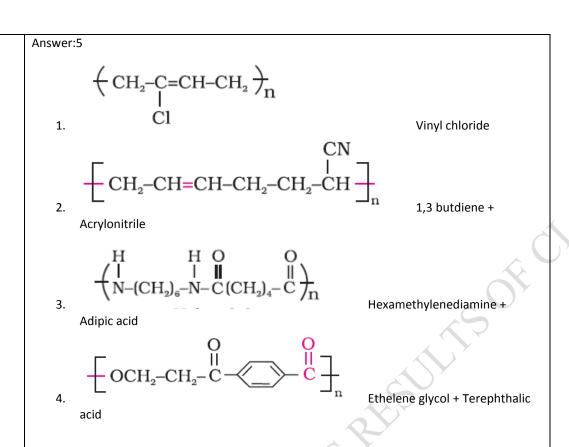
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Downloaded from www.studiestoday.com 1.polythene. 2.Adipic acid. 3.HDP. 4.Biodegradable polymer. 5. Polyesters. 6. Glyptal. CARD:04 1. $-(CH_2-CH=CH-CH_2-CH_2-CH)_{\overline{D}}$ Buna-S 2. $-(CH_2-CH_2-CH_2-CH)_{\overline{D}}$ Terylene 1. $-(CH_2-CH_2-CH_2-CH)_{\overline{D}}$ 3. Nylon-66

 CH_2 CH_2 n

Bakelite

CARD:05



Chapter -16 Chemistry in everyday life

List of concepts-

- 1. Therapeutic action of drugs
- 2. Chemicals in food
- 3. Cleansing agents

(A)Therapeutic action of drug:

	CARD-01		CARD-02
1.	Which of the following will you take during allergy?	1.	0.2 % phenol solution is used as
2.	(Paracetamol, bromphenaramine) Pick up the bactericidal antibiotic-(penicillin,	2.	is a well-known antihistamine.
3.	Tetracyclin) Which drugs relieves the pain? (Analgesics, Antipyretics)	3.	is also known as morning after pill. (mifepristone)
4.	Which is not a tranquilizer? (Veronal, seconal, furacine)	4.	A mixture of synthetic estrogen and progesterone derivatives is largely used as
		5.	Disinfectants are used on inanimate objects while
	CARD-03		CARD-04

Match the following: Match the following: Column-1 Column-2 Column-A Column-B Antipyretic Codeine Analgesic- narcotic Tincture of Iodine Dettol Antiseptic for eyes Antibiotic Aspirin Antiseptic 1 % phenol Iodine in alcohol-Mixture of chloroxylenol and Disinfectant Chloramphenicol water mixture Aq. Boric acid solution Tincture of Iodine CARD-05 CARD-06 Q State whether true or false. What is the action of following drugs on the human body-1. Luminal, seconal, Veronal 2. Analgesics lower down body temperature. 1. 3. Bromphenaramine can act as both antiallergic and Bromphenaramine, Terfenadine antacid. 3. Ranitidine, cimetidine 4. Amoxicillin is a broad spectrum antibiotic. 5. 4. Ofloxacin, Amoxicillin, Penicillin The barbituric acid act as Tranquilizers. 5. Mifeprestone, Norethindrone, Novestrol Aspirin is used in prevention of heart attacks. (B)Chemicals in food: CARD-01 CARD-02 Q State whether true or false. The food additives used to prevent the oxidation of 1. 1. Sucrolose is trichloro derivative of sucrose. Alitame is not largely used because the control of 2 2. food are called 3. The food additives used to prevent the spoilage of sweetness of food is difficult. food due to microbes are called 3. Sucrolose provides calories. The food additives that sweeten the food but do Salts of sorbic acid and propanoic acid used as not add calorie are _ preservatives. CARD-03 CARD-04 1. Match the following: Q Give reason for the following: The people suffering from diabetes are advised to use Column-1 Column-2 1. **Antioxidant** artificial sweeteners. Aspartame 2. Aspartame is used in cold food items only. Preservative Sugar Alitame is not much in use as artificial sweetener. Sodium benzoate Artificial sweetener 3. Natural sweetener BHA Antioxidants are generally reducing agents. Artificial sweetener Sucrolose

C)Cleansing agents:

CARD-01	CARD-02

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a	С.
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1.	Chemically soaps are sodium or potassium salts of	1.	Match the following:		
2.	Chemically detergents are sodium or potassium		Column-1	Column-2	
	salts of		Cationic detergent	Sodium stearate	
3.	is an example of detergent.		Anionic detergent	Ester of stearic acid	
	is an example of soap.		Non-ionic detergent	Cetyltrimethyl	
	Among detergent and soap,		Soap	Sodium lauryl sulphate	
4.	Is better cleansing agent.			5	
	CARD-03		(CARD-04	
Q.	Give reason for the following:	Q	State whether true or fals	se.	
1.	Nowadays long chain hydrocarbon is preferred	1.	Soap can be used in hard	water.	
	over branched one to prepare detergents.	2.	Soaps are better cleansing agents than detergents.		
2.	Detergents are preferred in hard water.	3.	Soap solution will turn blue litmus to red.		
3.	Soaps form scum in hard water.	4.	Soap is a biodegradable p	polymer.	
4.	NaCl is used for precipitation of soap.			5	

Chemistry in everyday life

Solutions

(A)Therapeutic action of drug:

	CARD-01			CARD-02		
1.	Bromphenaramine		1.	Antiseptic		
2.	penicillin		2.	Cemetidine		
3.	Analgesics		3.	Mifepristone		
4.	furacine		4.	Antifertility drugs		
			5.	Antiseptic.		
	CAR	D-03		(CARD-04	
1.	Match the following:	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	1.	Match the following:		
	Column-1	Column-2		Column-A	Column-B	
	Antipyretic	Aspirin				
	Analgesic- narcotic	Codeine		Dettol	Mixture of	
					chloroxylenol and	
	Antibiotic	Chloramphenicol		lodine in alcohol-	Tincture of Iodine	
	Antiseptic	Tincture of Iodine		water mixture		
	Disinfectant	1 % phenol		Aq. Boric acid solution	Antiseptic for eyes	
	CARD-05			(CARD-06	

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Q	State whether true or false.	Q	What is the action of following drugs on the human body-			
1.	F	1.	Tranquilizers			
2.	F	2.	Anti-histamine			
3.	Т	3.	Anti-histamine and Antacid			
4.	Т	4.	Anti-biotic			
5.	Т	5.	Antifertility drug			

(B)Chemicals in food:

	CARD-01			CARD-02
1.	Anti-oxidants		Q	State whether true or false.
2.	Preservatives		1.	T
3.	Artificial Sweeteners		2.	T ,
			3.	F
			4.	Т
	CARD-03			CARD-04
1.	Match the following:		Q	Give reason for the following:
				Y
	Column-1	Column-2	1.	The people suffering from diabetes are advised to use
	Antioxidant	ВНА		artificial sweeteners because they do not add calories
	Preservative	Sodium benzoate	2.	Aspartame is used in cold food items only because it
	Artificial sweetener	Sucrolose	3.	breaks at cooking temperature.
	Natural sweetener	Sugar		Alitame is not much in use as artificial sweetener because
	Artificial sweetener	Aspartame	4.	with this it is hard to control sweetness.
				Antioxidants are generally reducing agents because they
		4	1	will be easily oxidized by air in comparison to food.

(C)Cleansing agents:

	CARD-01		CARD-02	
1.	Chemically soaps are sodium or potassium salts of	1.	Match the following:	
2.	fatty acids Chemically detergents are sodium or potassium salts		Column-1	Column-2
	of sulphonic acids		Cationic detergent	Cetyltrimethyl
3.	Lauryl sulphate is an example of detergent.			ammonium bromide
	Sodium palmitate is an example of soap.		Anionic detergent	Sodium lauryl sulphate
4.	Among detergent and soap, detergent is better			
	cleansing agent.		Non-ionic detergent	Ester of stearic acid and
				polyethyleneglycol
			Soap	Sodium stearate
	CARD-03		CARD-04	

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Q.	Give reason for the following:	Q	State whether true or false.	
1.	Nowadays long chain hydrocarbon is preferred over	1.	F	
	branched one to prepare detergents because they are bio degradable			
2.	Detergents are preferred in hard water because they	2.	F	k
3.	do not form scum with hard water.	3.	F	
4	Soaps form scum in hard water because it forms insoluble calcium and magnesium salts with soap	4.	Т	
	NaCl is used for precipitation of soap for salting out.			

i) Bharat Kumar Pandya ii) Sajeesh Kumar TV iii) Satheesh Kumar TTV iv) Anil Kumar Sharma v) Pratheesh N