APPROACH TO LOWER SECONDARY CHEMISTRY PAPER ONE FACILITATION 2024

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Second element of construct: The learner appreciates the application of chemistry in daily life.

Basis of	Detergents	Food additives	Nuclear	Medicine and drugs	
assessment Category/type	Soapy detergent soapless detergent.	Food additives. Divided into natural and artificial food additives. Examples include. • Food preservatives • Antioxidants • Flavouring agents • Stabilizers • Food colours	processes Nuclear fission Nuclear fusion	Medicines. Divided into traditional and modern medicines. Composed of: • Antibiotics • Analgesics or painkiller's	
How the product	A soap molecule contains two parts,	or dyes Food preservatives, extend or increase	Nuclear fission is a process that	Antibiotics, treat	
/process	the hydrophilic head	the shelf-life of food	involves the	bacterial infections	
works/function/	and the hydrophobic	by inhibiting the	splitting of a	by killing or limiting	
Suitability.	tail. During washing	growth of moulds,	heavy nucleus	the growth of	
	soap lowers the	bacteria and other	when it is	bacteria in the	
	surface tension	microorganisms in	bombarded by a	body.	
	between water and	food.	fast-moving		
	oil or dirt. The	Food colours, enhance	neutron to form a	Analgesics, reduce	
	hydrophobic tail	or improve the colour	smaller nucleus	or relieve pain and	
	becomes attached to	of food therefore	with release of	inflammation	
	the oil or dirt while	improving its visual	energy.		
	the hydrophilic head	appearance, meeting	The energy		
	dissolves in water,	the consumers	released is used		
	with constant	expectations.	in: nuclear		
	agitation the dirt or	Flavours, enhance or	reactors_to		
	oil is pulled off the	improve the aroma	generate		
	cloth fabric. The	and taste of food.	electricity and in		
	cloth is then rinsed	Antioxidants, prevent	atomic bombs		
	several times and	the oxidation of fats	Nuclear fusion is		
	dried.	and oils in food	a process that		
		therefore maintaining	occurs when		
		its colour and	nuclei combine		
		texture.	together at high		

					to for	ty resulting mation of a nucleus.		
Side effects of	i.	Phosphates in	Some food additive		Side effects:		Some medicines	
the product(s)		detergents	can ca	use reactions	i.	Radiations	cause:	
+		can lead to	like:			emitted	•	Skin rashes,
Explanation		growth of	i.	<u>Nervous</u>		result to		blood
+		algal blooms		<u>disorders</u>		DNA		disorders
Mitigation.		in water		resulting to		mutation		and acute
		bodies thus		insomnia,		resulting		inflammation
		lowering the		hyperactivity		to		of the
		oxygen levels		and		hereditary		pancreas.
		in water		irritability.		defects	•	Brain and
		therefore	ii.	Digestive		and		liver damage
		death of		<u>disorders</u>		diseases.	•	Allergic
		aquatic		resulting to	ii.	Radiation		reactions.
		organisms like		diarrhoea and		cause	•	Diarrhoea.
		fish.		stomach pains.		burns on	•	Headache
	ii.	Some dyes	iii.	Respiratory		the skin,		mainly
		used in		problems		damage of		antibiotics.
		detergents		resulting to		the liver		
		are toxic to		sinusitis and		and	Mitiga	tion.
		aquatic		asthma.		reduced	•	Avoid self-
		animals.	iv.	<u>Skin problems</u>		fertility.		medication.
	iii.	Some		leading to	Mitigo	•	•	Always
		detergents		itching, rashes	•	Proper		check for
		are non-		and swellings		dispose of		the expiry
		biodegrable				radio		date of the
		thus	Mitiga	tion:		active		medicine or
		accumulate in	i.	use		wastes		drug.
		water causing		recommended		e.g. in	•	Follow the
		water		amounts of		bankers or		doctor's
		pollution.		food		buried		instruction
	iv.	Some		additives.		under		for taking
		detergents	ii.	UNBS should		ground.		medicine.
		can irritate		approve any	•	Putting on		
		the nose,		additive		personal		
		eyes, lungs		before it is		protective		
		and skin.		used thus		cloths for		
	Mitigo			protecting the		people		
	•	use		public against		working in		
		biodegradable		health		radio		
		detergents.		hazards.		active		
		Wear gloves	iii.	Food		areas.		
		when working		manufacturers		a. 0a5.		
		with strong		a required to				
		with strong		a required 10	l			

	detergents to protect your hands and skin. use appropriate amounts of detergents.	test all food additives and prove that they are self for human consumption. iv. Limited use of food additives. v. Always check expiry dates.		
Evaluation:	Similarities:	Note:	Similarities:	Note:
One difference	i. Both are	depending on the	i. Both	depending on the
and similarity.	effective	scenario given	processes	<u>scenario given.</u>
	cleansing		release	
	agents in soft	Similarities:	energy.	Similarities:
	water. ii. Both are salts	Both preserve food.	Difference:	 Both are antibiotics.
	of organic	Both improve aroma	Nuclear fission	Both are
	acids of long	and taste of food.	splints heavy	analgesics.
	carbon chain.		nuclei to lighter	
	difference:	Both improve the	nuclei while	Difference:
	Soapy detergents are	colour and visual	nuclear fusion	 Traditional
	Biodegradable while	appearance of food.	combines lighter	medicines
	soapless are non-	D:cc	nuclei to for a	take a long
	biodegradable.	Difference: Natural food	heavy nucleus.	time to act while
	Soapy detergents	additives have fewer	Nuclear fission	modern
	form scum with hard	side effects	occurs at ordinary	medicines
	water while soapless	compared to	temperatures	have a fast
	do not form scum	synthetic food	while fusion	response
	with any form of	additives.	occurs at high	action.
	water.		temperatures.	Traditional
		Natural food		medicines
		additives are derived from natural sources		have fewer side effect
		like plants and animals		compared to
		while artificial		modern
		additives are		medicines.
		synthesized from the		
		laboratory.		