

# AMBIGA COLLEGE OF ARTS AND SCIENCE FOR WOMEN (AFFILIATED TO MADURAI KAMARAJ UNIVERSITY) ANNA NAGAR, MADURAI-625 020, TAMIL NADU.

www.ambigacollege.com

6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms and recorded the incremental improvement in various activities.

INDEX				
S.No	Particulars	Page No		
1.	Academic Audit	2-3		
2.	Time Table	4		
2.	Course File	5-287		
3.	Student Feedback Form	288		



### AMBIGA COLLEGE OF ARTS AND SCIENCE FOR WOMEN

(AFFILIATED TO MADURAI KAMARAJ UNIVERSITY)

ANNA NAGAR, MADURAI-625 020, TAMIL NADU.

www.ambigacollege.com

## ACEDEMIC AUDIT REPORT: 2018-2017

Name of the Auditor: T. Stuppy Department Audited: Chemicky Date of Audit: July 1

C No	Andi D				acr	
3.110	S.No Audit Parameters		of Satis	sfaction	Observation /Remarks	
	bly Sai pustory Basadahasa	HS	S	NS		
1.	Institute /Department Academic Calendar in line to University				Asper University	
2.	Faculty Teaching Work Load distribution				Alper Universityno	
3.	Preparation of Course plan				1 18, 100033	
4.	Formation of COs, Mapping to POs, PSOs and Assessment process	1			cols, Posmay be improved	
5.	Quality of Certificate Course	()	F 1012 12 147		111 0 C C C C C C C C C C C C C C C C C	
6.	Quality of Value Added Course	1			No. of course make i	
7.	Elective Course selection	1			manage man at course for	
8.	Final Year Project Planning, Progress and quality-Review				more no of course by	
9.	Mentoring System	9			vtood	
10.	Remedial Classes for weak Students	1			utood	
11.	Whether HOD is PhD qualified.			10		
12.	Faculty – Student ratio				ASPOY Universifyham	
13.	Papers published			5	PISPET CHARACTER TO	
14.	Number of Conference Papers published		M		ala a	
15.	FDP Participation			100	Catiched	
16.	Number of Class rooms with ICT Facility.			1	Satisfied	

17.	Laboratory facility	5			Ctood
18.	No of FDP/ Seminars/				
	workshops/Conferences				2 Dog and a local !
	Organized.				2 programsonly
19.	Placement Percentage		1		Core Company Placement
20.	Higher Studies Through				( enward
	Competitive Exams				
21.	Industrial Visit	1			Crood
22.	Guest Lecture by Industry				
	Person.			0	NIL
23.	MOUs and activeness			U	NU
24.	Technical Events under				
	Professional Societies				NIL
25.	University Result Analysis	5			well pre pared inood
26.	Class Committee Meetings	1			well prepared trood yes, wordent Roge yes, conduct Roge
27.	Department Faculty Meetings				VPS. conduct Illa
*HS-H	lighly Satisfactory S-Satisfactory NS-	Not Satis	factory		

Recommendations of the Auditor:

Signature of the Head of the Department

Signature of the Auditor

Signature of the Principal

### Part IV: Skill based course-III PERFUMES AND COSMETICS

Credits-2

Max. Marks 100

Hours/Week:2

Ext:75+Int:25

#### UNITI: I NATURAL PERFUMES

Perfumes-plant and animal sources- examples -components of perfume -vehicle - characteristics of good vehicle fixatives and its types, odoriferous compounds, extraction of essential oils by distillation, enflurege and solvent extraction methods.

### UNIT II: ARTIFICIAL PERFUMES AND FLAVORS

Preparation and uses of methyl anthranilate, methyl salicylate, methyl cinnamate, phenyl ethanol, citronellol, vanillin, coumarin and heliotrope.

# UNIT III: COMPOSITION AND MANUFACTURE OF PERBUMERY

Rose and Jasmine-Composition and preparation of rose and jasmine perfumes-manufacture of fruit flavors-fruit syrup preparation and composition of apple and pineapple flavors.

### UNIT IV: SOAPS AND DETERGENTS

Cleansing action of soap-differences between soap and detergents-ingredients of washing and bathing soap-TFM of bathing soap-composition of solid and liquid detergents-functions of ingredients in detergents.

## UNIT V: COSMETICS AND PERSONAL HYGIENE PRODUCTS

Characteristics of good cosmetics-demerits of artificial cosmetics-basic composition of talcum powder-face cream-nail polish-hair dye-tooth paste-mouth wash (Composition only)

#### REFERENCE BOOKS

- 1. Industrial Chemistry-B.K Sharma
- 2 Textbook of cosmetics-Rajesh Kumar Nema, Kamal Singh Rathore, Balkrishna Dubey
- 3. Manufacture of perfumes, cosmetics, detergents-Gir Raj
  Prasad (from Small Industry

## AMBIGA COLLEGE OF ARTS AND SCIENCE FOR WOMEN ANNA NAGAR, MADURAI-20

#### DEPARTMENT OF CHEMISTRY- STAFF TIME TABLE

#### **EVEN SEMESTER TIME TABLE NOV-2018**

MRS. S. AMUTHA ASSISTANT PROFESSOR

NO.OF HOURS: 16

DAY ORDER/HRS	1	2	3	L	4	5
I	I CHE		I MICRO	N	III CHE	
II	I CHE	I CHE		C	III CHE	
III	I MICRO LAB		Ш СНЕ	H	.5=	
IV			III CHE	B -	1 MICRO	- de la companya de l
V	PHYSICAL III CHE	LAB		R		I MICRO
VI	I MICRO	I CHE		A K		

HOD/CHEMISTRY

PRINCIPAL

# Synthetic perfumes

Intro duction:

The principal Sources of adour bearing Compounds are plants and animals. Some of these Compounds possesses pleas ant doors and have played an important sole in Ruman lives Since ancient times. A profume may be difinal as a mixture of pleasant Smalling substance into a suitable solvent. The odorous Compounds are products of plant metabolism and are found in leaves, fouito to book noots and shizomes of plants. Some notable Executives are the oil desired from anised, basil, carraway, Cardamom, cedar, wood, celegi einnamon, coriandes, Quinoin, eucalyplis, goger, pasmine, lemono, ouse, sandal und Velesian. chemically, a perfume is composed of Three ingredients viz. Vehicle, fixative, and odoriferous Repstance.

Methyl anthronilate:
('methyl, o-aminobergoale -NID-CoA)

('methyl, o-aminobergoale -NID-CoA)

('methyl, o-aminobergoale -NID-CoA)

coochs) possesses a sweet adour of arange flowers

and is indispensable in preudo neod; oils methyl

and is indispensable in preudo neod; oils methyl

A substance used with water for washing and cleaning, made of a Compound of natural oils or fats with sodium hydroxide or another strong alkali and typically having perfume and colouring added.

Chesing action 9 800p!

closensing action a soaps and detaisons. most of the dist is only in nature and oil does not dissolve in water. The molecule of soap constitutes sodium or potassium salts of long Chain carboaylin ands therefore, it form an amulsion in water and helps in dissolving the dirt whon we wash our clothes. soup is a kind of molecule in which:

Joth the ends have different proportios.

\* Hydrophilic and

\* Hydrophobic and.

# Différence between soap and detergents:

soops: They are metal Salts a long chain higher factly

long chain Deresgents: The BR are Sodium salts A

1. They are Na and k salts 4 long chain acids

2. They have lonic part -Cooma group

3. Their performance decrease in hard wares

4. They take time to dissolve in water

5. They are brodegradable Ex. sodium sparahe

They are waland k Salts of long Chain Sulponic acids

They have lonic part -803 Na or-soy Na grocy Hard water does not affect their efficience.

They dissolve fastes In water some detergents are not biodogradable Ea. Sodium Yaury / Sulphane.

Ingradients of washing soap:

- Alcohol Ethozylaha

- Allay ( (00 Alcohol) Etholy Sulphane

- Amine baide : Amphoteste Surfactant

- Carboxymethyl cellulose

- Cutto calid

- cyclodesetrin

- Diethyl Ester Dinethyl ammonium chloride

- Ethanot

predients of Bathing soup:

- checking the individual labels.

-> Sodiem Laurett sulfate, sodium laurett sulphate 18 cleanser with high-foaming properties that make it useful for those with hard water.

7 sodium palmitate

5 7 sodium Lauroy1 Isothionale

7 sodium olivate

= sodium cocoate.

TEM of Bathing soap ! Total fatty matter (FM) is one of the most important characteristics describing the quality a soap and it is always specified in Commercial fransactions. En older day in Europe and in some countries now, soup with TFM 45% minimum was referred to as Grade I and 65 r. minimum as Grade 2 and loss boy, as grade 3.

### composition of solid deforgents:

A method of preparing a solid hand laund, detergent composition comprising combining the following components.

a) 4% by weight 40% by weight anhydrous alkaling Salts, based on the weight of the final composition.

5) 2 r, by weight to 30 t. by weight dunhydrous de torgency voinforcing agents.

c) water

d) 10 r. by weight to 50% by weigh Surfactant. e, o.1 % by weight lox-by weight sognestrant and f) 0.5 by weight to 20 v. by weight possonide bleaching agent.

Cowering to State Common

MAR Why.

Not cool

composition of liquid detergent:

Model.	The group		
component	waight 1.		
Neodol 23-6.5	28		
Ditallowalkyldimethyl ammonium chloride	7		
solicem tollene salfonate	2		
Ethanol	15		
Warer	48		

A liquid de torgen composition includes an

## perfumes à cosmotics.

oposition a mose:

gallica - the oldest of the rosses. Certivated in Egypt for the production of the oil and cubsolute. Analysis of the Chemical composition of Rosse reveals to us that the main components know as the rosse alcohots are cetronellol, Geraniol, Nerol and phenyl Ethyl Alcohol.

composition of Jasmine:

The approximate, comportion of gasmine flowers oil obtained by enflowage is benzyl acetate, hinderly linely a cetate, benzyl alcolog fasmin, indole and methyl anthranilate Jasmine is one of the oldest known and most widely used botanical scents.

Preparation:

1. Wash the flower petals, yently clean not
any dirt and sediment with water.

any dirt and sediment with water.

2. soak the flowers put cheedec cloth inside
a bowl with edges overlapping the bowl

3. Heat the flower Scennool water.

4. Bottle the parture.

simple systep in a sweet, concentrated Fruit Syoup: liquid made by boiling water and sugar together and its used in drinks and can be poured over cakes and other dessorts. With the addition of -fruit the sysup takes on the flavorand color of the fruit.

composition or apple:

malic acid 18 the nein acid present In apples the more sour the apple the more matic and contains. Bramleys Lotain about 0.9%. malic acid by weight some adex apples contein about twice that amount-

Preparation is apple flavour Sydup!

combine apples and water in a small saucepan over high heat. Bring to a boil roduce heat and simmer for a hours or until concentrating to your liking fremember, it might be sont depending on type of apple used but we Will be adding sugar later.

## isition of pineapple flavors:

pineapple nutritional benefits are as fascinating as their anatomy "pineapples contain high amounts of Vitamin c and many nese. With amounts of Vitamin c and many nese. Sould san Diego-based nutritionist faura flores. Sould san Diego-based nutritionist faura flores. These bopical treats are also a good may to get important dietary tibes and bromelain (an en Eynse)

Preparation & Pineapple Syoup:

Combine four parts sugar with two parts water in a lenge bowel. Remove too inadible buter skin from a small princapple and kica it into cubes. Add the cubed princapple to the sugar-and-water nutture and let-sit for a hours. If you would like an additional flavour in the syoup such as vanilla or basil add it now.

A Perfume is a substance that emits and clibbuses a bragrant odour, s'Cents ave classifiéed ass notes bared on their obfactory charchter. A perfume is a Unique mixture of bor, middle, and base notes designed to give a Particular harmony of Scents.

Prefaration: -

Perfume Comes prom the Latin Per meaning through and furnum or smoke. Many arcient Perfumes were made by extracting natural oils from plants through pressing and Steaming. Some Prodoucts are even perfumed with industrial odorants to mask unpleased Smells or to appear unscented.

Raw materials! -

Natural ingredients - blavers, grasses, spices, bruit, wood, 9006s, resins, balsams, leaves, gums and animal Secretains as well as resources like celcohol, Petrochemi Cals, and Coal tars are used in the manufucture of Perbunes, Thorbore

Some Performe ingredients are animal Predoucts.

For example, Castor Comes brom beavers, musk from male deer, and ambergreis brom the Sperm whale. Animal Substances are of ten used too bixatives that enable Performe to evaporate slowly and emit odors longer. Performe to evaporate slowly and emit odors longer.

Other bixatives include Coal tear, mosses, resins or Synthetic Chemicals.

Plant Sources

Plants have long been used in Perfumery as a source of essential oils and aroma Compounds. These aromatics are usually setondary metabolites Produced by Plants as Protection against herbivories, intections of their well as to attract Pollinators. The Sources of this Compound may be downed from Various Part of the Plant. Orange leaves, blossoms, and bruit zest are the grespectively source of Petitgrain, neroliand

The Polant source cure Clarsibile as seven lypes Bark: Commonly used barks include annamon and Cascarella. The bragrant oil in Sassafras noot bank is also used either directly or purified for its main constituent, Sabrisle Which is used in the synthesis of other bragiant Compounds. (i) Foruits: Fresh Founts Such as apples, straw bornes, choories rarely yield the expected odors when extracted the Dest Commonly used bounts yield their aromatics brom the rand. they include Cit rus Such as oranges, lemons and lines. Since the natural aromatic Contains Sulpur and its degradation Prodouct is quite conpleasent in Smell. (ii) Leaves and twigs: Commonly used for Perfumery are lavender leaf, Pat Chouli, Sage, Violets, robemary and Citrus leaves. Sometimes leaves are Valued for the green Smell they bring to Perfumes. examples of this include hay and tomato leaf. IV) Resins: Commonly used resins in Perfumery include lab danum, brankin cense/olibanum, myorh, boilsam of Peru, benzoin. Some of what is called amberond Goral in Perburnery today

Organie Solvent extraction

Organic Solvent extraction is the most

Common and most economically important technique for

Extracting aromatics in the modern Perfume inclustry-Raw

materials are Submerged and agitated in the solvent that

Can dissolve the desired aromatic Compounds. Commonly

wed solvents for maceration/solvent extraction victude

he wane and dimethyl ether.

In organic Solvent extraction, aromatic Compounds as well as other hydrophobic soluble Substana Such as wad and Pigments are also obtained. The technique Can also be used to extract odorants that are too Volatile for distillation or easily denatured by heat.

The Solvent is then gremoved by a lawer temperature distillation Process and reclaimed too re use.

V) Sociels: Commonly used terrestrial positions in Perbumony include esus rhizomes, vetiver roots, Varnoies Thitomes of the guiger family.

Vi) Woods: Highly important in Providing the base ndes to a Perfumo, wood oils and distillates are In clis Pensable in Perfumory. Commonly used Woods in Clude Sandalwood, rolewood, bruch, Ceder and pino Those are used in the form of macerations or drydistalled (rectified) forms.

Vii) Room Comperature: Orchid Scents!

Aremal Sources

A musk Pod. Extensive hunting of male musk deer bor their Pods in recent his to my has resulted in the detriment of the Species.

Ambergris: Lumps of Oscidized feetly Compounds, who se Pre Cursons were Secreted and expelled by the Sporm Whale. it gremains one of the bew animalia bragnating agents around which little Controlousy now exists.

Ethanol extraction is a type of solvent extraction Wed to extract brigant Compounds directly from dry naw materials, as well as the empure oils or lore rete resulting from organic Solvent extraction : expression or enfluerage. The impure Substance or oils are mixed with ethanol, Which is less hydrophabic than Solvent Used to organic extraction, dissolves more of oxidized Wromatic Constituents, leaving bohind the cut, baks and other generally hydrophobic Substances. The alcohol li ev Portated Under law-Pressuro, leaving behird absolut

The absolute may be further Processed to Gende any impurited that are still Present brom the Solvent cirtination.

Vanillin: Vanillia can also be prepared from lignin through an alkaline posssure cook at 130-200 lbs pressure for 30-60 minutes of the calavium Agnissulphonic and the Vannillin 13 purified through the sodium bisulphater Compound and expection with benjene po isopologies. It can also be prepared from phenol 600 a ehloro. He biotopin: (cH2 02 C6 H3 THO) is a white nitor benjone through quaincol. yellowish white constalline solid having a de light ful odour of cherry pie it is artificial prepared by the oxidation of 100- suffole, but originally obtained from pepper by the oxidation of pipeni and with know in alkaline soln. This aldehyde is the methylene ethos of

proof catechaic alouhyd cle checke Heat 6 py. Civet: Also Called Civet musks, this is obtained brom
the odorous sacs of the Civets, arimals in the family
Vivervidae related to the mongoose. World animal
Protection in vestigated African Civets Caught for this
Protection

Hy rateum; Commonly known as abruca stone is the Rebribied, excrement of the rock hyrrat.

musk; orginally downed from a gland (Sac or Pool)

loCated between the genitals and the umbilious of the

loCated between the genitals and the umbilious of the

himalayar male musk deer moschus moschi berous, it has

himalayar male musk deer moschus moschus musk

now mainly been replaced by the use of Synthetic musk

Somelimis known as "white musk".

Other natural Sources
Lichens: Commonly Wed lichens include Oakmoss and breemoss
Shalli.

Seawerd: Distillates are sometimes used as essential oil in Perbumes. An example of a Commonly used seawerd in Picas Vesi Culosas, which is Commonly reparred to as bladder where Culosas, which is Commonly reparred to as bladder where Culosas, which is commonly reparred to as bladder where Culosas, which is commonly reparred to as bladder where Culosas, which is commonly reparred to as bladder where Culosas, which is commonly reparred to as bladder where Culosas high cost and lawer Polency than Synthetics.

Distillation is a Common lecturiques for Obtaining aromatic Compounds from Plants, Such as Orange blossom and sucles. The naw material is heated and the bragrant Compounds are re-Collected through Condensation of the clistilled vapour. Today, most common essential Oils Such as lavender, Performent and Eucalypes, are distrebled are known either as essential oils or ottos. Today, most Common essential oils blavers, leaves, wood, bark, 9006s, Seeds, or Peel is Put into an alembio

Blending

once the Perfume oils are Collected, they are ready to blended to gether according to a formula determined by a master in the field known as a nose. Tollet water has less amount - 2-1, oil in 60-80. [. alcohol and 20.].

The placer Parts dissolve in the Solvents and leave a wary material that Contrains the oil, which withen Placed in ethyl alcohol, The oil clissolves in the alcohol and ruses, I feat is used to exportate the alcohol, which one fully bound off, leaves a higher Concentration of the Perfune oil on the bottom.

enflewage:

Sheets Coated with grease. The glass Sheets are Sheets between wooden brames in tiers. Then the flowers are removed by hand and changed until the grease has absorbed their bragnance.

Maceration: maceration is Similar to enfluerage corect that warmed fats are cused to soak up the blower Smells. As in solvent extraction, the greater and fatts are dissolved in alcoho to obtain the essential oils

Manufucturing Process

Collection: Before the manufuelwing Process begins, the intial ingredients must be brought to the manufacturing Center. Plant Scibs tances are horizested brom around the world, often hand-Picked for their briagrance. Avanatic chemicals used in Synthetic Perfumes are Created in the laboratory by Perfumo Chemists.

Efteraction

oils are extracted from Plant Sub Stances by Several methods.

Steam distillation: Steam is Passed through the Plant material held in a Still, Whereby the essential oil tion to gas. This gas is then Passed through tubes, Cooled and liquified. Oils Can also be extracted by bolling Plant Substance like flower Petals in cuater instead of Steaming them.

Solvent extraction;

Flowers are Put into large rotating tanks On chrums and benzene ar a Petroleum ether is Pourced Expression

Expression is the oldest and least Com Plet moteral of extraction. Expressión as a method of bragnance extraction where raw materials are Pressed, Squeezed con Compressed and the essential oils are Collected. This is due to the large quantity of oil is Pretent in the Peel of these bruits as to make this extraction Method elonomically beasible. Citrus Peel oils are expressed mechanically or Cold Pressed. Due to the large quantities of oil in Cibrus Peels of these fruits as to make this extraction method e Conomically blasible. Lemon on sweet orange oils that are obtained as by - Pro clouds of the Commercial Citrus industry are among the Cheapest Citrus oils.

Cosmetics:

Used to enhance on alter the appearance of the face and texture of the body.

Use of explying face, hair, and body.

They are generally mixtures of chemical compounds. Some boing desired from Natural Source (such as Coconut oil)

Characteristic of good cosmetics:

The sensory explorience 4 a cosmetice product is based on its appearance, texture, and oder and is a measure of its quality customer acceptance of cosmetic products is largely based on the plysical characteristics of the product, mainly the way it seeks to the touch.

cosmetic product is based on its appearance, texture, and below, and its a measure of its quality.

customes acceptance a cosmetic products is lengthy based on the physical characteristics. Of the product mainly the way it feels to the touch.

An the graterial Sector where SOME Cosmetic processive, the physical characteristics of cosmetic weed to be Combined with the expected performance based on the manufacturer's chain.

### Demerits of artificial Cormetics:

1. Shin infection!

skin infection is one of the biggest Skin issues where a person has to suffer from isritation and allergies which is really very itritating and painfeld. If you are suffering from a skin infection. Then you may have red marks all over the skin.

2. Danage to Phresnal Organs:

The chemicals present in these products
seeps into the bloodstream from these pores and
attacks the internal organs slowly but it can be
deadly because in May Completely damage the organ.

3. Acre and pimples:

enough capacity to retain the attack of the chemicals on the Skin, then the Symptoms can be easily noticed on the Skin in the form of shin problems including ache and pimples.

4. Damage to the horrows system:

System of a human is also affacted by the Utilization of a sesult or excessive near

5. Skin cancer:

The Chemicals of these products are

so harmful that it may cause severe skin

disease like cancer.

but these chemicals may cause cancer.

b. Early ageing:

Excess use of chemical induced

phoducts causes early ageing and the symptoms
of ageing like fine lines and wrinkles starts
appearing at a young age.

Noil polish: Varnish applied to the finguest hould by the noils to colour them or make them Shing their dyp: It natural or Synthetic substance used to chang the colour of a person's hour.

Face cream: logmetic Cream applied to the face to improve the Complexion.

Tooth paste: a thick, soft, moist substance wed on a brush for cleaning one's Leeth.

Mouth wash: A liquid Used for Plinsing the mouth or gargling with.

# sasic composition of talcum powder:

Talcum powder:

form of the Softest Mineral on earth.

Tall 1s an "inest" ingredient, Meaning

it does not generate a chemical reaction when ingested on used on the skin. People have taken advantage of its hateral smoothness, safety and adsorbency since ancient Egyptian times.

Tale is a clay mineral Composed of hydrated may resilum silicate with the Chemical formula Ma Si. O (OH).

Mgs S14 10 (OH)2. '
Tal in powdered form, often in combination
with corn starch, is a widely used Substance known
with corn starch, is a widely used Substance known

A Cosmetic Composition in the powder form,

composising:

a basic portion that comprises.

7 1.0-40 Wt 1. & a load of moist -touch lamellar particles of loated mica.

> 0.1-20 Wt. Y. g a load of day-touch spherical

- a binding compound and a cassier compressing a lare Mineral Load with particles Smaller than 10 microis.
  - 9 0.1-8.0 wt % pentaexythrito/ tetraester.
  - => 0.05-9.5 wt 1. steasoy1 isocety 15 tearate.
  - => 0.01-5.0 Wt v. of at least one polyperfluoroisopro

greates than 40 lot. 1/1 of a carrier of Micronized talcum powder.

# Basic composition of face cream:

Between about 1.0 and 10.0 W/w portant anhydrous

Between about 5.0 and 15.0 W/w portant anhydrous

Sodium Sulfacetamide.

Between about 0.1 and 1.0 W/W poxcent allantoin.

Water: - xanthan gum: disodium EDTA: Sodium thiosalfate: Methyl paraben; propylone gly col. stearic acid, phrEG-8 stearate; emulsifying wax: Kopropyl myristate; propylone glycol Stoarate: propyl paraban fragrance.

an effective amount of sodium hydroxide to maintain a pH at on above 7.0

The basic composition of nail polish! homesor about 10.0% hitor certuse 18-25 CPS From about 0.2% to about 8.0%. santolite MHP. From about 2. 4 to about 5-by. santolitie Ms-86 from about 1.6% to about 3.2% Cellovas CV-160 0.01% " 11 1.0% 395 " a O.Oly, " " 1.0%. Troykyd 366 Anti creater and 0.0% to about 15.0%. Shade paste. said composition having a Brookfield Visiolity hot greater than about lookps. The basic composition y toothpaste: A toothpaste composition in accordance with claim 2 where in the Eleubride ion source ik sodium fluoride A toothpase composition in accordance With Claim 3 Which Contains an additional toothpase composition component solocted from the group consisting & A) from about 0.1 x to 6 % & a sudsing appoint B) from about 0.01 % to 21/8 a flavoring agost. e) from about 8.05% to 2% 9 a sweetering eyene D) - from about 8.03.1. to 5% of a toolhpaste birdes E) Mixtures of these additional toothpaste composition components.

### The Basic composition of Moathwash:

A) from about 0.02% to 0.20% of a quaternary ambonium compound.

B) an amount of a tetra-alkali metal pyrophosphate solt sufficient to provide from about 0.5% to 5%. The P204-4 species:

c) a carrier liquid

where in the pH of said composition is adjusted to the range of from about 7.0 to 9.5 with a mineral or organic acid.

A Mouthwash composition according to the carrier liquid is an esthanol / water minture and is present of a level ut from about 60% to 99%.

The pH of the Composition is adjusted to fere rayse of from about 4.0 to 8.5.

Basic Composition of Hair dye:

0.027 EDTA

27. herglene glycol

47. diethyleneglycol monoctyl ether

5.777. ammonia

2.847. ammonium chlorida

24. sodium lawyl sulfata

0.27. sodium chlorida

12.37. hydrogen peroxida

10.047. phenacetin



# SYNOPSIS

- COMPOSITION OF APPLE
- PREPARATION OF PERFUME FROM APPLE.
- **EXTRACTION**
- STRUCTURE OF APPLE
- USES OF APPLE

### COMPOSITION OF APPLE:

A scock on a Substance Sometimes

Shave a Chemical Composition but Something of
the Same Size and So Simple as an apple
doesn't . it simply Can't be described by a Single
on even thousands of Chemical scoretion.

### chemical Substance of Apple:

There are lot of chemical composition Present in the fruit Apple.

Alpha - Lisolenic Acid, As paragine, 2- Categin, Isoquecterin, Hyperoside, Ferulic-Acid, Farnesene, Neoxathin, Phos phatidyl-choline, Reynoutoin, Sinapic-Acid, Caffeic-Acid, Chlorogenic-Acid, P-Hydroxy-Benzaic-Acid, P-Coumaric acid, Avicularin, Lutein, Quercitin, Rutin, Versolicacid, Peroto Catechuic acid, Silver, Tryptophan, Thereonise, Isoleucine, Loucine, Lycine, Methionine, Cystine,

Phenylalanine, Tyousine, Valine, Argenine,

Histodine, Alanine, Aspostic Acid, Gilutamic Acid,

Glycine, Proline and Serine.

There amounts of Boron, Carbon, Corbon, Cobalt, Proteins, Insoluble fibers, Water, Carbonydrates, Lipids, Saturated fats, braces of Pesticides and fortilizers and many more that hover't been discovered at all. We don't even know Our exact Chemical composition, all the Variables and the difficulty of Saying that apples. The chemical formula would be greatly hard.

## PREPARATION OF PERFUME FROM

# APPLE:

## Ingredients:

- · Jojoba Oil (07) Sweet almond oil 15 ml.
- · Aleshol (Voolka) 75 ml.
- · Distilled water only \_ 2 table &poons.
- · A coffee filter (even a funnel).
- · Dark-Colowed glass bottle 1(0r) 2.
- Essential oils 25 dorops.
- 7 derops of base note oils. [Vanilla, cinnamon, form, Sandalwood, Patchouli, Codarwood, moss, lichen]
- · 7 doups of middle note oils [nutmeg, lemongrass, geranium, Clove, ylang-ylang, neroli] and

· 6-7 drops of top note oils [Lavender, scase, jasmine, psuhid, lemon, lime, bergamot, nevoli]

### Procedure:

## Shep 1: Readying your bottles:

- i) Sterilise your glass bottles.
- ii) Run them through the dishwater or just boil them in hot water for about 5 minutes.

# Step 2: Powing the base oil:

Pour the jojoba a Sweet almond oil is the bottle.

# Step 3; Get the essential oils night:

- i). The top note is what you smell when you specitz it on first.
- ii). It dispenses to make way for the middle note;

which then evaporates to leave behind the base note. This is what lingers on your obtin

for the longest time. It is important to add your essential oils to the perfume in the opposite order - the base note first, then the middle and finally the top note.

It you're a newbie and just leavining how to make perfume. Keep a note of everything you add it you want to repeat the bragerance Some time later.

# Step 4: The allohol:

i) Now add the alcohol.

i) Shake it well.

ii). Put away into a apposed for 48 hours to up to 6 weeks.

# Step 5: Is the Perfume groady?

After 6 weeks, get the bottle out.

i) It the Perfume smells the way you want it to, add & tablespoons of Spring water.

ii). Shake the bottle well to mix all ingredients.
iii). Using the Coffee filter (or) funnel, Carefully
Power your homemade Perfume into a dark
glass bottle.

iy). Air and light are the biggest enemies of essential oil occomers. Top up the bottle and glass is keep it in a dark Cupboard.

V). You can add a tablespoon of glycerine to retain its smell longer.

# Step 6: Using the perfume:

i). pour only a little into a decorative bottle for daily use.

is). Give it an exotic name.

cii). Make Sure you have a succord of every stop.

# EXTRACTION:

# Sources of Natural essential oil:

Essential oils are generally derived from one or more plant parts, Such as flowers (eg. Rose, jasmire, Carnation, Clove, minosa, rosemary, lawarder), leaves (eg. mint, 10 cimum, lemongrass, jamrosa), leaves & Stems, wood, stoots, Seeds, bruits (bergamot, orange, lemon, juniper), shizomes (ginger, Calamus, Curcuma, Orange).

and gums or Oleo rosin exuolations.

(balsam of peru, Myroxylon balsamum, Storax, mejorh, benzoin).

## Hydrodistillation:

In order to isolate essential oils by hydrocolistillation, the aromatic plant material is packed in a still and a Sufficient quantity of water is added and brought to a boil;

alternatively, live sbeam is injected into the Plant Charge. Due to the influence of Inst water and Steam, the essential oil is freed from the oil glands in the Plant tissue. The Vapor mixture of water and oil is Condensed by indirect Cooling with water. From the Condenser, distillate flows into a Separator, where oil Separates automatically from the distillate water.

# Mechanism of Distillation:

flydrodistillation of Plant material involves the following main physicochemical processes:

- i) Hydrodiffusion.
- ii). Hydrolysis.
- iii). Decomposition by heat.

## Types of Hydrodistillation:

There are those types of hydrodistillation for isolating essential oils from plant materials.

- P. Water distillation.
- 2). Water and Steam distillation.
- 3. Discet Steam distitlation

## Water distillation:

In this method, the material is completely immorsed in water, which is boiled by applying heat by direct fire, Steam jacket, closed steam jacket, closed steam coil or open steam coil. The main characteristic of this process is that there is direct contact between boiling water and Plant makerial.

# Water and Steam distillation:

In water and Steam distillation, the Steam can be generated either in a Satellite boiler or within the Still, although Separated from the plant material. Like water distillation, water and Steam distillation is widely used in sural areas.

deal more Capital Expenditure than water distillation. Also, the equipment used is generally Similar to that used in water distillation, but the plant material is Supposted above the boiling water on a Perforated goid. In fact, it is Common that persons performing water distillation eventually progress to water and Steam distillation

# Direct Steam Distillation:

Direct Steam distillation is the Process of distilling plant material with Steam generated outside the Still in a Satellite Steam generator generally referred to as a boiler. As in water and steam distillation, the plant material is supposted on a perforated guid above the Steam inlet. A seed advantage of Satellite Steam distillation is that the amount of Steam Can be readily controlled.

Because Steam is generated in a Satellite boiler, the plant material is heated no higher than 100°C. It should not undergo thermal degradation. Steam distillation is the most widely accepted process for the Production of essential oils on large Scale.

# Essential oil Esteration by Ma Ceration:

Certain plant materials sequise maceration in warm water before they release their essential oils, as their Volatile Components are glylosidically bound.

Example:

Leaves of Wintergoveen (Grantheoria Prolumbers)
Contain the Precuosor gaultheorin and the enzyme
Prime Verrosidase; when the leaves are malexated
in warm water, the enzyme acts on the
gaultheorin and liberates free mothyl
Salicylate and prime Verrose.

other Similar examples include brown mustard (Sinigrin), bitter almonds (amygolalin) and garlic (allinin)

# STRUCTURE OF APPLE:

L-Malic acid is the nationally occurring form, whereas a mixture of L-&D-malic acid is produced Synthetically.

Malate plays an important side in biochemistary. In the C4 Cambon fixation process, malate is a source of Co2 in the Calvin cycle. In the citaric raid Cycle, (3)-malate is an intermediate, formed by the addition of an -OH group on the S: face of furnamente. It can also be formed from pyrewate Via anaplementic greations.

Malate is also Synthesized by the Carboaylation of phosphoenolpyrumente in the guard cells of plant leaves. Malate, as a double anion, Often accompanies potassium Cations during the uptake of Solutes into

the guard Cells in order to maintain electrical balance in the Cell. The accumulation of these Solutes within the guard Cell decreases the Solute Potential, allowing water to enter the Cell and promote aperture of the Stomata.

D- Malic Acid:

# USES OF APPLE:

# 1). Improve Lung Health:

Apples Contain Several Phytochemicals that are thought to promote lung health. Studies have shown that apples help people Studies have shown that apples help people Suffering from allergies and asthma.

# 2). Troat your Skir Right:

Apples are a great way to give your Skin that glow it deserves.

# 3). Boost your Workout:

Squeeze an apple between your thighs the next time you're doing Counches to odd extra challenge to your workout routine.

# 4). Good Rid of a riggione:

Take a whiff of a green apple the next time you feel a migrane Comingon.

Studies have shown that the smell of green apples helps case the pain & Shorten the time they last.

**Sheet No** 

SKill

<sup></sup>

· · · ·

S	h	0	0	1	M	0	
9		C	C	L	14	U	

Pineapple uses

# pineapple worth songits, fish & nothition

facts;

\*Serving size: 1 cup chunks (1659)

\* Immune system support

\* Bone strength

\*Eye health

\* pineapple can help reduce the risk of molecular degeneration a disease that effects the eyes are people age, due in part to its high amount of vitamin c and the antioxidants it contains blores said.

\* Degention

\* Anti Inflammatory benefits

## Extract Method:

Alcohol extractions provide the simplest my to distill just about any fruit to its essence but just any built. pineapple ign't bromelain, a protease tenderizer. Normally a title bromelain isn't a problem it works wonders on tough meet but in doughs and batters, it breaks down the gluten needed for structure and strongth Bromelain does the Same to gelatin turning it to liquid. This is way cannod foods are Sometimes better than fresh. boromelain is destroyed making During canning extract you create from It -sake for use in raked goods and desserts.





pineapple with excellent quality special and nutritional richness, is favored by world wide. It is the third most tropical fruit. In this chapter. In addition Important to ereviewing prineapple nutrient composition organic acid traditional Contents 18 pineapple cultivars and 16 modern pineapple cultivare fibes Content in 12 pineapple cultivars dietary vitamin A, Vitamin C, Vitamin Bz, Vitamin Bg and Big contents in 11 Pineapple cultivars were

analyzed. A groma compounds and their order activity for six pineapple cultivars were identified phenolices and blavomold concentration of 11 pineapple cultivars and contituidant capacity of 12 pineapple cultivars cultivars were also compored.

# Manufacturing process of pineapple

The manufacturing process of pineapple products viz Slices and Juice involes many steps and different sub processes Ripe and makured pineapple are washed, graded and peeled then they are crushed in the crusher to obtain fluice

In case of slices, after peeling uniform slices are made on the slicer. Twice is then taken to vessels and boiled and cortain presonatives are added. It is finally taken to stroage tanks and pathod in bottles on vaccom filling machine. In case of stices, they are dipped in sugar syrupton about 3 to 4 hours. Then the slices are

taken to lacquered cans and cans are strillized.

Thile carning, sugar syrup is added cans are

world quickely and after sealing and labeling they

the stored The average yield is around 80%

Chemical structure of five compounds from the

enteract of pineapple:

calphoric acid

<sup></sup>

1-0 cabbe obbylycerol

1, 3, odicable oylghycerol

SKill Based A Signmen Pine apple

By:

3 - Selvarani

1st B.sc Chemistry.

#### Pine apple Uses:

## Pine apple health Benefits Risks (4)

#### Nutrition factst

=> Lerving Size! 1 cup chunks

-> Immune Bystem support -> Bone strength.

Tisk of Macular degeneration a disease that affects the leges of People of vitanien c. and the antioxidants it Contains of lones said.

-> Digestion.

-> Anti - Inglanmatory banefite.

## Extract Method;

Acoust extraction Provide the Einplest every to distill first about any facil to its essence but Pineapple isn't that any facil.

Pineapple Container baoniclain - a Problem it works Wonders on though Meat But in doughs and batters it breaks documen the queen needed for structure and mengen. Baonelain does the Same to getation turning it no liquid. This is way canned foods are Some times better than fresh. During Canning Gronelauir is destoryed making the extract ofou creete from it. dage for use in paked goods and dessents.

## Composition of fineapple!

#### Abstact;

Price apple with Excellent quality. Apecial flavor and neutritional rich ness is flavored by Consumes world wride. It is the thered Moss

Conmercial important tropical freit. In this Chapter. In addition to reviewing. Pineapple mutrient Composition Elouble Augar and Ergourie and Contents in 18 traditional Princapple Culturars and 16 Moders. Princepple Celturas dictary fibes Contents en 12. Pineapple Cultimas Vitarien A, Vitarie C, Vitarie B3, Vitanuin By and Vitanuin B12 Contents in 11 Pinecepple Cultimans Were analysed. Aromatic Compounds and their odor activity for Six Pineapple Cultivars were Identified. Theretics and flavor old Concentration of 11. Princapple Celténais and artioscialant capacity of 12. Pinecepple cultivar West also Compared.

# Manufacturing Process of Pineapple;

The Manufacturing Process

Of Pineapple Products Viz. Elices and

Frice Involes Many Steps and differents

Sub. Processes. Pipe and Matured

Pineapple are washed, graded and

Peeled. Then they are crushed in the

Crushes to obtain Truice.

Enclase of Solices after Peeling emiform Slices are made on the alices. Their staken to vesselve and boiled and Certain Preservatives are added. It is finally taken to sold crage takens and Packed in bottles on vaccan filling Machine. In care of slices, they are dipped In sugar ayrup for about I to 4 hours. Then for alices are taken to bacquered cans and cans are strillized, while causing, sugar dyrup is added, cans are coolied quickly and orfter sealing

and Labbling they are Ostored the overage of ield is around 80%.

Chemical Structure of fine compoun

From the extract of Princapple:

1-o catte exlalycerol.

1-0-P Commarcylez lycerd.

SKill Based A Signmen Pine apple

By:

By:

1st B.sc Chemistry.

#### Pine apple uses:

## Piene apple health Benefits Risks (1)

#### Nutrition facts ;

=> Lerving Size! 1 cup chunks (1659).

> -> Immune Bystem support -> Bone strength.

-> Eye health.

Tisk of Macular degeneration en disease that affects the lefter of People of vitanian c. and the antioxidants it Contains of fores said.

=> Digestion.

=> Anti - Inflammadory banefite.

#### Estract Method;

Acoust extraction Provide the Einplest way to distill first about any fruit to ets essence but Princapple isn't that any fruit.

Pineapple Container baoniclain risult or Problem it works Wonders on though Meat But in doughs and batters it breaks documen the gluter needed for structure and Strength. Baonelain does the Same to getation turning it no liquid. This is way canned foods are Some times better than fresh During Canning Bronelain is destoryed making the extract ofou create from it. dage for use in baked goods and descents.

Composition of Fineapple!

#### Abstact!

Prince apple with excellent quality, special flavor and neutritional stick was is flavored by Consumes world wide. It is the thered Most

Conmercial important tropical faceit. In this chapter. In addition to reviewing. Pineapple mutrient Composition plante dugar and Organic and Contents in 18 traditional Pineapple Cultivars and 16 Moders. Princepple Culturas dictary fibes Contents en 12. Pineapple Cultimars Vitanien A, Vitanien C, Vifancien B3, Vitania By and Vitania B12 Contents in 11 Pinecepple Celtimars Were analysed. Anomatic Compounds and their odor activity for Six Pieneapple Cultivars were Identified. Phenolics and flavor old Concentration 04 11. Princapple Celténars and artioscialant capacity of the Princepple cultivar West also Composed.

## Manufacturing Process of Princapole;

The Manufacturing Papless

Of Pineapple Papoleets Viz. Slices and

Truite Involes Many Steps and differents
Sub. Paplesses. Ripe and Matured

Pineapple are washed, graded and

Peeled. Then they are caushed in the

Crushes to obtain Truite.

Encase of Slices after Peeling, curiform slices are made on the slices. The rade on the slices, then taken to vesselve and boiled and Certain Preservationes are added. It is finally taken to set orage takens and Packed in bottles on vaccam filling Machine. In carse of slices, they are dipped In sugar slyrup for about it to 4 hours. Then the slices are taken to hacquered caus and cans are strillized, while causing, sugar strap is added. Cans are coolied quickly and orfter fealing

and Labbling they are thord to average ofield is around so. chemical Structure of fine compour From the extract of Princapple; P- Coumarie acid Cappeic acid and the state of t 1-ocatte eylqlycerol. 1-0-P commarcyly ly cerd. 12,0 dicaffeoylqlycerol (curamasate)

# AMBIGA COLLEGE OF ARTS AND SCIENCE FOR WOMEN ANNANAGAR, MADURAI-625020 DEPARTMENT OF CHEMISTRY SEMINAR MARKS ODD/EVEN SEM-2019 I-B.Sc [CHEMISTRY]

TITLE OF THE PAPER: PERFUNE AND COSHETICS. SRILL

		REGISTER	LEISTON COLLETTO' SBIT	
S.NO	ROLL NO	NO	STUDENT NAME SEMINAR M	ARK MARKS
	18A1401	B8S19601	K.ARUNA DRANGIE	
2	18A1402	B8S19602	DIVYA PRIYA.P JASMTNI	
	18A1403	B8S19603	GAYATHRI.S PINEAP	
4	18A1406	B8S19604	LAVANYA.K STRAWR	
5	18A1407	B8S19605	LOGA NANDHINI.R.N ROSE	/.
6	18A1408	1	MEENA LOCHINI.D ROSE	-   5
7	18A1409		MUHILARASI.M PINEA PP	15
8	18A1410	B8S19608	NANDHINI.T PINEAP	
9	18A1411	B8S19609	PRIYA.M JASMI	-
10	18A1412	B8S19610		
11	18A1413	1	· [180]	E . 5
12	18A1414	1	CELVA DANIA	
13	18A1415		CIVA CANCARIA	4.5
14	18A1416		CILLANO DE LA CILLA DEL CILLA DE LA CILLA DE LA CILLA DEL CILLA DE LA CILLA DE	5
15	18A1417		0.3.770	
16	18A1418		CIMETIAL	/
17	18A1419		SWETHALS APPLE SWETHALS JASMIN	E 5

y le

# AMBIGA COLLEGE OF ARTS SCIENCE FOR WOMEN ANNA NAGAR, MADURAI-20.

#### I-INTERNAL TEST

Class: I B.Sc Chemistry

PERFUMES AND COSMETICS-III

Marks: 75

Date: 1, 2,19

Time: 3 Hrs

#### SECTION-A $(10 \times 1 = 10 \text{ marks})$

#### Answer ALL questions:

1. Which one of the following example for animal fixatives?

(a) Musk (b) benzoin (c) labdanum (d) coumarin

- 2. Commercially coumarin is obtained from ----- reaction.
- 3. The chemical formula of phenyl ethanol is-----
- 4. Define perfume.
- 5. What are the odorous compounds?
- 6. What are the ingredients present in the perfume?
- 7. What are fixatives?
- 8. Define vehicle and it requirements.
- 9. Write a structure of vanillin.
- 10. Molecular formula of methyl salicylate is -----

#### SECTION-B ( $5 \times 7 = 35$ marks)

#### Answer Any FIVE questions

- 11. Mention the preparation method of helitropin
- 12. What is the difference between artificial and natural flavors?
- 13. Draw the flow chart for the preparation of and flavoring materials.
- 14. Write a note on winter green oil
- 15. Mention the preparation of vanillin
- 16. Write a note on rhodinol.

#### SECTION-C $(3 \times 10 = 30 \text{ marks})$

#### Answer All questions

- 17. Explain in detail the various methods of extraction of essential oil in perfume industry.
- 18. Explain in detail animal and plant fixatives with examples.
- 19. Describe any three components of artificial flavors and its uses.

# I internal

# Answer Key

- 1. Musk
- 2 perchmaunn reaction
- 3. C101802
- 4. Mixture Substance.
- 5. compound fragrance.
- 6. Ofour fixatives
- 7. animal fixatives
- 8 votifele
- 9 vanillin
- 10. CoH4 (OH) (CO2 CH2)

#### AMBIGA COLLEGE OF ARTS AND SCIENCE FOR WOMEN ANNANAGAR, MADURAI-625020 DEPARTMENT OF CHEMISTRY **INTERNAL MARKS ODD/EVEN SEM-2019**

#### I-B.Sc [CHEMISTRY]

TITLE OF THE PAPER: perfume and cosmetics SRII

			THE PARENT OF COME	1000		
S.NC	ROLL NO	REGISTER NO	STUDENT NAME	MARKS	1	
1	18A1401	B8S19601	K.ARUNA	16	1	
2	18A1402	B8S19602	DIVYA PRIYA.P	42	1	
3	18A1403	B8S19603	GAYATHRI.S	36		
4	18A1406	B8S19604	LAVANYA.K	41	1	
5	18A1407	B8S19605	LOGA NANDHINI.R.N	56		
6	18A1408	B8S19606	MEENA LOCHINI.D	70		
7	18A1409	B8S19607	MUHILARASI.M	46		
8	18A1410	B8S19608	NANDHINI.T	32		
9	18A1411	B8S19609	PRIYA.M	32.		المحداد المتعطي بالمريزار
10	18A1412	B8S19610	RISVANA PARVEEN.A	20		. 4
11	18A1413	B8S19611	SARANYA.M	41	<b>1</b> 5 -	3
12	18A1414	B8S19612	SELVA RANI.A	37	1	
13	18A1415	B8S19613	SIVA SANGARI.R	28		
14	18A1416	B8S19614	SIVAKANCINIMATHI.S	<b>3</b> ヲ		
15	18A1417	B8S19615	SUMAIYA BARHANA.K	36	1	
16	18A1418	B8S19616	SWETHA.S	26	1	
1	7 18A1419	B8S19617	SWETHA.S	14		

Jan I

I - Internal 708t.

ROLL NO: 18 A1408

Dept: I-BSc Chemistry

Date : 01.02.2019

Day : Friday

Exam: Perfume

### Perfumes & cosmetics-iii.

#### SECTION-A.

1) Musk.

Perchnaum reactions

3)

C10 H802. [0]

Perfume is a mixture of Substance which is in corporated in a Suitable solvents.

The compounds which emits a placent

5),

bragance to over body is called oderiforous

(2)

compounds. eg: Musk, Boock, woods, flowers,

leaves etc.

6). The main ingredients present in the Perfume are,

- \* Vehicle,
- \* Fixatives,
- \* Odowiforous compounds and

1

\* Essential oils.

#### 7). Ciratives:

Fixatives one the Substance which needed to keep the oderiferous compound.

Commanly they are four fixatives.

- \* animal fixatives.
- \* gresin fixatives
- \* essential fixatives and
- \* Synthetic fixatives
- + Plant fiscatives

8). Vehicle:

Vehicle or the solvent is needed to

Keep the fragrance of the Substances.

The Vehicle must have there characteristics

i). It must be volatitle

ii) It should not be iscritate to the

human Skin,

iu) It must be insent and colourless.

9) Vanillin:

OH och3

CHO

10). Moleculas formula: Con CH3)

hyde

mol

Tole.

11). Helitropin:

The Structure of heliteropis is

CHO

The image in a second of the choose of

Helitropin is indispensible of helitrope. It is a sweet odour. It is in the garden variety of helitropin called. Heletrophium autooriens." It can be need as a modifiers in perfume.

It is not only used in perfume industries best also used in electroplating industries.

Dals

It can be mited with anisicaldehyde, musk, Vanillin, benzyl, coumarin, isolugenal and the essential oils like nevali, begeriale. It has a plasent Smell.

The helitopin is Synthetically prepared from iso Safride; but the Oxiginally prepared from the pepper to the pepper avid by KOH or the alkaline Solution. The aldehyde of methylene ester from the proto catechic aldehyde.

Pereparation: CH=CH-CH3 CHICH = CH2 15 has 15-20 hrs Do Safarola Salvole (98.1.) Saforole is isomorised into 000 Safrole by boiling the how Solution 15-20 hors and the to Saforole is toreated with Soglium dicheromate & H2SO4 it can be heated for 15 hors to get 981. of heletropin.

Uses:

\* Heliterspin is used in perfune industries.

\* It is used in clock plating also.

\* It is used as a modifiers for the

Perfumes.

Methyl Salicylate:

nethyl Salicylate is a organic

Compound.

It is also called as Wintergreen oil.

It is Systematically Paroduced by the

Plants - win bergeven.

The molecular formula is

C6H4 OH (CO2 CH3)

The chemical formula is C8 H8 0.

24

1.

It also called fliethyl 2 hydroxy benzoate.

Molecular weight is 152.15 g/mole.

Density is 1.1748/cm3.

It is Soluble is Organic Solvents.

It is a Colovelers liquid, Volatile liquid and sweet odour.

It is nothyl ester of the Solicy lie acid.

It is used in the Soap and Perfune industries.

It is obtained from the plants wistergreen which grows in the lold places.

Espe wally U.S., Carada etc.

Child



### Peroposation:

rethyl Solicylate is proposed by esterifying the Solicylic acid with rethand 1425%

uses:

\* Methyl Balicylate is used in the perfune industries.

\* It is also used in Soap industries.

\* It is used to gelease a muscular

Dais in all the pinments it can be used.

#### 15). Vanillin:

The structure of the Vanillis is

It is also called 4 hydroxy 3 methoxy benzaldednyde.

Vanillin is used in chocolate, cardy, bakery products, ileleans and perfumes.

Guaiacol is peroposed from the Vasious methods.

benzyl, commaris and iso eugenol in terfume.

It is used as fixer, modifier

Eugenal is obtained from the oil of clove it is converted into isoeugenal by the KoH Solution. The isoeugenal is oridized by nitrobenzene it can produced Vanillin.

It is extract from the cloves.

vanillin is used in the Soap industries with limited. Because of the conversion of Soap bown patches.

The extraction is in white one Yellowish white Constalline Staruture.

It is doen in notion from the balsams of peau and to be on the Surface of blooms which is in Constalline

Structure of white blooms.

Vanillin is used as the escence called Vanilla.

It is used in the Sweet flavour

phenyl anisole is treated with oxime it forms the isomer and it can be heated with phenyloxime it forms intermediate with phenyloxime it forms intermediate and it undergoes Reduction process to

form Varillin as Varilla.

Eugenal Iso Eugenal Vanillia

Eugenol Converds into iso Eugenol by Nitrobenzene and it foams Vanillin.

Uses:

\* It is used in chocolates, Candy, i Ce Creams.

For food & bourdages. -- It is used as a escence as

Vanilla.

proceptance volution.

Eugenal

### citeranellol [Rhodinol]:

The citeronellol is Called as

shodinol.

16).

It is an isomeric of

Ichodisol.

It is found in score, gormanium and

cito hellol oils.

It is a floral odowr like 908e.

1 2021

citronellol is used in the

perfume like stom & rose and liby

Porfumes.

- CH3 C=CH CH2 CH2-CH CCH3 CH2 CH2OH.

It is an esterns of formate,

acetate and iso butgrate.

150

9

Commonly citaronellol is proposed brown citaronellel to oridized with Rangy Nickel to get a citaronellol as a Rangy Nickel to get a citarollol as a product. Which is mostly in the scale and life perfumes.

cho Rovey

Ni

withorellel

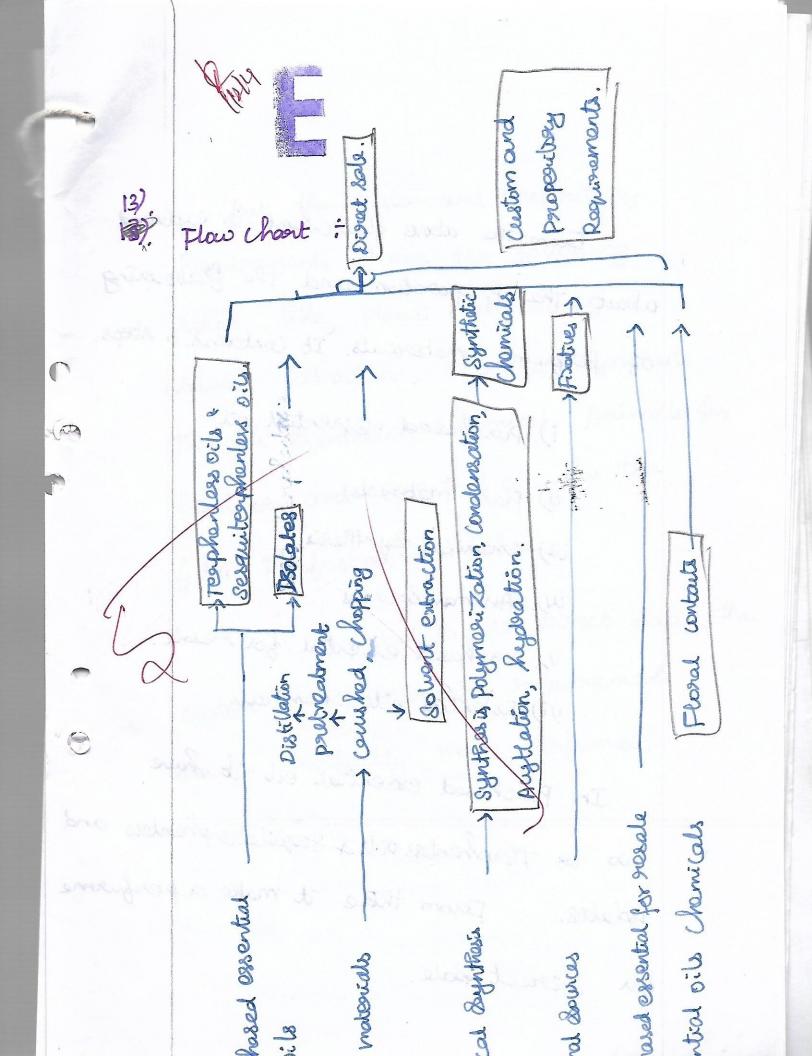
withorellel

uses:

-x citeronellal is used in perfume

industries.

\* It is present in the susse.



form the above flaw chost is explained about the Preparation and the flavouring of perfume materials. It contains b steps.

- i). Purchased essential oil.
- i) Plant materials
- iii) chemical Synthesis.
- W). Arrival Sources
- V) purchased essential for seale.
- Vi) Essertial oils chemicals.

In purchased essential oil it have two as teaphenless oils & Sequilateorphenless and Isolates. Forom title it make a perfurme for Direct Sale.

But the Custom and propositiony
Requirements have the following
Steps like, plant materials from
Solvent extraction, chemical synthesis
through Synthetic Chemical, Animals for
fixatives and essential oil for the

fully Perfected Perfume.

a topics are as a station making

1

custom and properitory requirements one or perfectly made perfumes,

#### SECTION-C.

# 17). Methods of Extraction:

#### SYNOPSIS.

- \* Introduction.
- \* Enteraction.
- \*Solvent extraction.
- \* Steam distillation.
- \* Enflurage.
- \* Maceration.
- \* Expression.
- \* conclusion.

Introduction:

They were various types &

extraction methods un con des about is

the following ways as deboiled.



Floures.

### Eatraction:

The method extraction can be used for extract the essential oil beam the plant Sources. It have 5 types. They one,

i) Solvent Extraction

ii). Steam distillation.

ii). Enflacage.

iv). Macreation.

v). Expression.

After the extraction aging and blanding is performmed.



Eatgartions

#### Solvent Externation:

Elowers one Placed in the large riotating downs for tanks with a benzere for, peteroleum ether. They are dissolved in the solvents and the ethyl adiaphol is added for extract. The flowers were picked by hands and the leaves were downed which can be used as a perfune in bottom.

The perfune in bottom.

Rotator.

Rotator.

Rotator.

Perfuers.

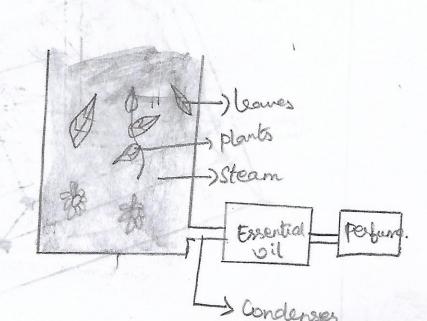
Perfuers.

Perfuers.

Bottom.

### Steam distillation:

In Steam distillation the plants can be immorsed in a Steam tank. They are in the form of gas. A tube is connected to collected the gas, cooled and then liquified. Ethyl alcohol is used for the extract of exsential oil. Heated the alcohol to get the perfume.



### Enflewage:

Steam distribution:

In Enflowerage the plants are placed in a glass sheets which one coated with genease. The glass sheets are placed in wooden brane and tions. If they alwhol is added and Heated until the grease observed their flagrances.

Observed Man Granes

Storeus

Plant

9900000

Wooden

Storeus

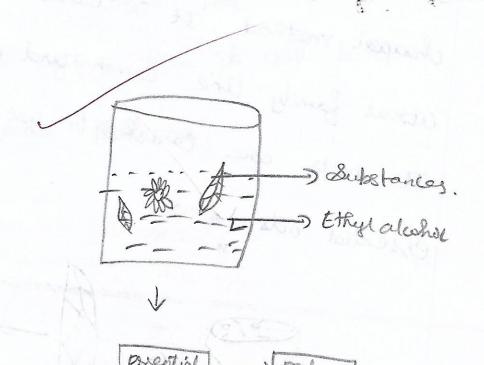
Class
Short



1

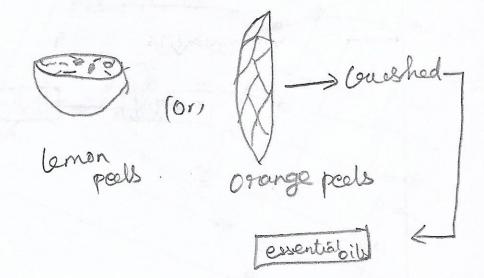
### Maccoation:

Maceration is like a enfluerage but the warmed up office plants are like a Solvent extraction added Ethyl alcohol to extracted the essential oils from the Plants.



Malesaliens

The plants should be taken and it can be constrained, chopped by hards to extract the execution oils. It is a low cost and cheapest method It is suitable for the citrus family like lemon and oxonges. It peels are caushed to get a execution oils.



Conclusion: en stant Jonard & Judy (81 Those are the Various extraction of orsentral oils the perfume industry. After that it can be blanded and aging then it will be a perfume. \* Arimal specialisms · chaptromost. freedown Come \* Contuspon - autoukarehit The plant and arrival disorte use WHICH COM OR COMMY IN THE

# 18). Plant & Animal Finatives.

### SYNOPSIS \* Interoduction. X plant Sources. · Back. · Rootse Rhizomes. · Flowers, · Facuity, · Woods, · Loaves. \* Animal Downces, . Ambarigus · Casterioum · civet. · honey comb. · Musk. \* Conclusion

Introduction:

The plant and animal downers one

A CON

8

## plant &ources:

In plant Sources they are many perfumes can be produced because 06 the acroma Compounds. It can be obtained after the Secondary metabolism of plants.

#### Books:

obtained Commonly in Cascarille and Connamenon. The book of sessafaras Contain the main Components as sufficient which a used as a CH2=CH-CH2.

Loaves:

In bases the perfume can the Cossiander beef, cinnamenon leabs, grosse baves, Caston

Fauits can be used in the Vine, Orange, apple, perfumes lake Strawborry, black uprent, cherries,

etc.

Flowers:

Flowers can be used in perfumes gross, jasmine, botus, lily, minosa, cuscutta etc.

Woods:
Woods of the plants can be used as
Woods of the plants can be used as
a perfune like surse wood, jasmine
wood, Sandal woodand the bragarances
woods.

Roots & Rhizomes:

Some of the groots and shirtomes like.

Tous orhizomes,

Rhizomes of the

ginger family.

These are the Substances from the plant Soverces for the purpose of using a fixitatives in perfumes.

#### Animal Sources:

In animal Sources some of them are used as a perfume fixatives they are

Ambarigus, Casterioum, Civet,

Honey comb

Mus K.

Res !



## Ambarigus:

Lumps of the organic falty

Compounds can be caused by the

Precursors of the male whale:

Ambaigus is the Spann of the male.

Ambaigus is not confused a yellow colony

in a good jewellery.

### Casteroum:

Casteroum is Commonly Called as the Sac of the North Americans. civet:

Civet is Commonly Called as vivet Sac. It is obtained from the family of Viviborea which is related to the margoese family.

typaxceum:

Hyerax Courn is obtained from
Hyerax. It is called as "Aferican stone".

Honey comb:

Forom the Honey bee it greleased of Substances. \* Honey \* Noney Comb. Forom Honey comb it is mixed with ethanol to get the tro neg wax.

#### mush:

male dear in the turnaleyon forest.

Called "moschus moschiforious". It is

secreated from the gland located between

the umbelieus and genitia.

Conclusion:

Those age the fixatives obtained from the Plant & animal Sources.

## 19). Antifical flavours.

Symb PSIS

\* Introduction.

\* Helitopis.

\* Vanillis.

\* Methyl Salicylate

\* conclusion

## Introduction:

The flavour which Present naturally but it can be synthesized by contifical is called artificial flavours.





## Heli Mopin :

Helitropis is sincles pensible & Relitrope. It is surect colour. It is in the garden variety & Relitropin Called Heletrophium corbo excenses.

It can be used as a modifiers, in Perfumes It is not only used in perfume but also in classoplating.

It can be mixed with

\* anisic aldehyde

\* Vanillin.

\* benzyl

\* Cournasies

+ accuganol.

1 0000 + 1 1

The helitopin is Synthetically prepared from the pepper to originally prepared from the pepper to the pepper and by Kott as the alkaline solution. The aldohyde of methylene ester from the protocoletechic aldehyde.

uses:

It is used in perfune industries.

It is used in electroplating also.

It is used as a modifier.

rethyl Salicylate:

It is a organic compound

à

It is Symmetrically prepared from the plante wintergreen. Molecular

is called hellingl 8

formula to (6 H4 04 (CO2 CH3)

Chemical formula => C8 Mg 03

Motecular weight => 152, 15 gm/mol
Density => 15774 gm/cm3

It is Synthetically used in foragrance and food beverages and in

liniments

It is called Methyl a Snegdowy benzoate. Soluble in organic Solvents. It is a methyl exter of Salicy lic acid. It is colour less, Volatile liquid and Sweet odows.

Proparation:

food beingages and in

reethyl salicylate is proposed by esterifying the salicylic acid with mean/ 1280%

Lingungerle

4. mary i les cords de varaque Uses: The Larredonna

It is used in Perferne & Strap industries, and used to release the muscular pais.

Vanilles en entre M. It is Called L hydriony 3 methody benzaldohydo.

vapithin a mixed with helimpio benzyl, Coamarin & isoeugehol is Perfuene. It is a fixer, modifier and

blender.

HOSA

(1)

CHI NEWS

the Enail

Eugenal is obtained from the oil of allower is converted into oil of allower is converted into into eugenal by Kon. and it is oxidized nitro benzara. The product is in white (or) yellowish white Constabline. In value the balsam of prom and tolu on the Swifere of blooms which is in white Constabline blooms which is in white Constabline blooms

preparation:

ON

ON

ON

ON

ON

ON

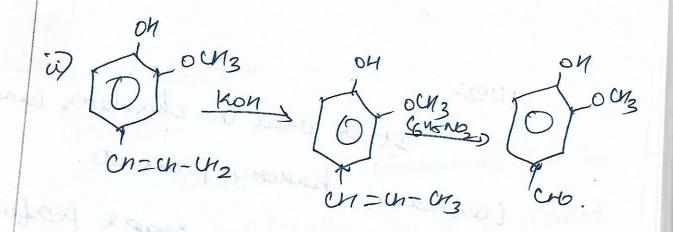
Change Nhoh

Change Nhoh

Change Name

Change

OH OUNZ LAT



Eugenol à convert into iso eigenol and it produced Vanillien.

Phonol is theated with oxime it forms
the isomer and it can be treated
with phonyl oxime it forms
intermediate & it undergoes scoluction
to your vanillin.

Uses-

It is used in chocolate, Cardy i calcrams, bakery products.

It is used in soap & perfume

industries.

It is used as the escence;

on the broams,

The flavour yanilla Contain

the composed vanillar.

0 U/3.

CHO

Conclusion.

These are the Compounds Can be Prepared outifically so it a called outifical flavorous.

Name: P. Dinya Poriya ROLL NO: - 18A1402 Jasborpa class :- 1. Bc (Chemistry) Sub:- Perfumes & cosnetics -III Date: 1.2.19. Section - C \* Ahund he It is perfume industry. productioned as a Mixture of Die pleasant Smolling Substances incorporat - pol unto (a) Suitable Solvent ro) small proportion odorous compounds Steam volatile ail are produtes is plant one products is plant of Mercurs, Flower 8,7 book, root, orhihames. of plants. Indire non \* synttitie compounds having The Some odows as natural were discovered arariety of compounds having wide range of fragrances

ROLL NO: 18A1 ADR

Jane P. Davya Poula

The there ingredients. \* Viz, \* fixative. and odoriforous substance \* The Most Common solvent torogne is ethyl alcoholomisted with More worten . Prilling - Indicas \* Vehicle (or) 8 olvent :is needed to keep the rodoreperferne. Bubstainere in Johntion. The Most important reaquirements of a good solvent vous privai ela company (b) It should be non-internt Elatorphuman Oker, valor mos congresse (C) It Should be intert lossand almost polowitais. penjune

a, planing la

\* Fixabives are The Substances (or) lower volatility. Then The Perfure Oil. All Fixatives are classified into 4 groups, Viz, animal fixatives, resin Fixative essential oil. Fixative and synthetic Fixative.

18. Explain in detail plant fixabives. \* plants house long been Used in perfumery as a source of essential oils and overna compounds. These aromatics are Usually Secondary Metabolites Produced by plants ors Protection against herbivores centrections as well as town. affract pollinators.

1. chemical

er planteriore by for the largest source of fragrent compounds are Used in perfernery; outpot et classified into 4 granps. connamon and cascarilla. The ovi Basik -Fragrant Oil is Sousselfas Root bark also Used either directly its constituent soutrole. cohich is used in the synthesis of other compounds. jumping taloners and prossons: \* Undoubtoolly the largest not prost common source of Perfune anomatic Includes the Flowers of Several special of noted in fasmine. attract policiators.

proprietary Formuleting custem and olognosins and orependess 30 houtes conclensation, Autylote 8ynthesis, endobou hy obergenochelon, ed oil chemica pessential used product & L Products reportals mediates Rosale Book B

Plant Fixatives: arinal finalines: Fruit? :-\* Firesh Forbits such as apples, stramborries, cherries oranely yield The Expected odors when extracted if such fragrance notes and pound a perfume. Leaves and twigs: \* commonly used for perfumery are lavender leaf. Patchauti, Sage, violets, vosé mary and citrus Leianes. Roote rhizomes and bulbe :-\* Commonly used terrestorial Portions in Perfumery include iris orhizomes, vetiver oroote, various. Thizomer of the genger Family.

Rosing :- 0000: Wrammas \* \* valued, Since artiquity, resins have been widely Used in incense and perfumery. brid & commonly Used resins in the perfumery include labelanum. Frankincense/ oliberum, nyorth, bolsom of portunibenzoin. Sceold : Amborgais: \* commonly used seeds include Honka bean, corrot seed i concender. careway, cocoa, nutrieg. Mace. cardaman, arise. \* Newsk. -- & boood and thighly important in peraviding The base noted to a perfurae, bulled wood oils and distillates are indispensable in perfumery. 41 payes and trains, & Rom tempores

of commonly Used woods Sandal wood, rose wood, agarwood birch, ceder juniper pine. incerse and perfumen Rom teppener: Lucle Cabalanin. droug orchid scents animal fixatives \* Ambergris, connot seed ! cony eau \* pettyraceum, + Honeycomb, Musk. plant fixatives example 2000 \* Bark, of foots, rhizomes and bulbs, \* plowers and blossoms. Rolling. \* founts and of dood of when \* Leaves and twigs, \* Rom temperes.

II. Answer la questions: He helitropin :chary pie Tris indispensable \* Helitropin is ors a base por helitropin perfumes and is one of the of the most popular great carnation and sweet Pea Perfames. \* It Oceurs in garden Voiriety of helitrope Helitropum derborescens. It is not only Said Used is perfumery, but also used in electroplating. 16.1 Modine of metall. \* Molecular pormula CH202 CH3 CHO 2t, is

solid

having a delight ful odour of cherry Pie. This aldehyde is Ida The riethylene ether of protocate doorhers Methyde aldehyde the CHCH3 CHOCH = CHO Heat, bol Kott in alcohol For abtino p 15-20 hrs; Na2 C7207 + H2 804 10. Vooodbin : also seed in etect 16. rhodinol: · Alux Ocurs in rose, germoin Hand citronella oilpean \* It possoses the vose like 1 concinully its

= (CH3)2 C= CHCH2 CH2 - CH (CH)3 CH2 CH3 OH. \*It is a colorless liquid Ett 20 which is isomeric with workodinol. It has lavresweet rose like volour. CH20H cintronellal Centronellabrien + Intoposial - 3variller vanillen 150 \* varillin is one of The Most widely used planours. It is used on a plouvour un chololate, coundy, bekeny, products. cream and pertunery, Use in The In addition to its 1 Elarous industry.

HO HI H) & (In) HS erves as a starting reatorials for the syntheris a The opengent principle of red Pepper. (a) OH HCHO NOOH > (O) CH20HOH OCHS CHOCHO -oclts COHS NHOH CH = N. Chts. 4 hydroxy-3- Methory ben zaldehyde. Vanillin 15. Varillin TOCH3 in militariochs CHQCH=CH2 CH=CHCH3 OH Eugenotrated, planes neam pendupopumeny, of self on the noutilalas /CHO promous industry. land in vanillier

ugenol which occurs in The oils of clove &. is First isomerisaal to isoeugenol in the Presence of KoH.: \* It can be obtained from clove oil. & It Nature, Vanillin is found in the boilsant of peru and tolii, and may be seen on the Surface op The Varillis been. \* yanillin às entensuely Wed as Fixer, Modifier and blander - vabillier has limited opplication in Soap perfumery because it has a tendency to torn the soop brown with age.

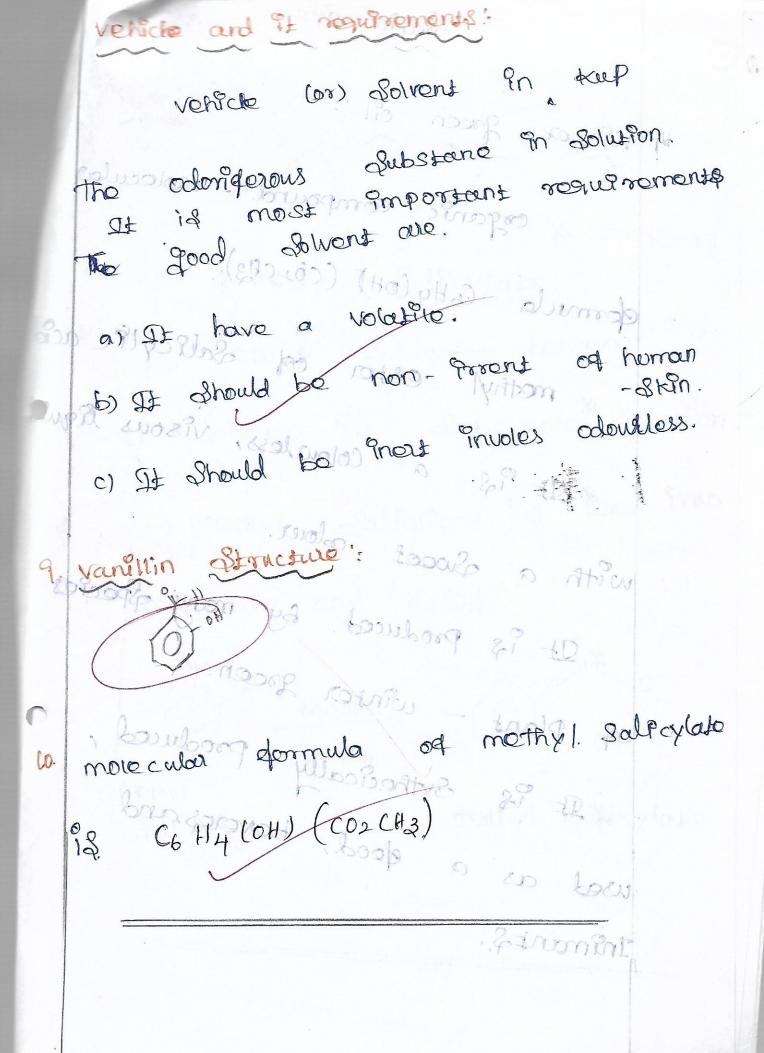
13. chart for Metorials olognosins oned upencloss oi Soluter Synthesis orcolation potyporendisation condendaten, hulling -shy dimgenation coushing, Brinding chopping ele. tud oil chanica essentia al products vased produ wheatlakus t hoterial g Col

The questions suitoris + volatility stremments produced Linativez one classified into a groups. outing flusking , fautarest lange essential oil. pinative pard extretic ets: apod of boldgood in thewal trained that 104. Defined as a Mixture of pleasant Smelling Substances incorporated into a suitable solventes long a isiteal to Hudanskin 5. The polorous compounds stoom volatile Oil are produts is plant of Metabolism and are round in leaves, Fruits, flowers, book, root, rhihomes, of plants,~ 6. Viz, vehicle, finative, and odoriferous substances. CH-0. C. H. CHQ.

7. Finatives are the Substances (or) Louis Volatility Then the perture ail. All finatives are classified into a groups. Viz, animal fixatives, resin finative essential oil, percative and synthetic Fixative. 8. Vehicle (or) solvent is recoled to keep the Soloriperturne 3 abstance in Solution. the post important re-quirements of a good solvent one elitaja (a) Et Must be voloitale, (b) 2+ should be non-iritant to humanskin (c) It should be intert and almost Leave &, o dourloss formation it could brown the state of plants. warragipaloo bright Vanillin Valida oologipanous CH202 C6 H3 CH9.

Roll No! - 18A1419. Department: Chemistry 1st : ofkill Based - II. Subject modifications 1. Place . B. 1 . 1 Date viz, golust, glower grantives, in Souther A. Omoszos , entrof Lovernorth Colors 1. mothanal o 7. OFXantros: and southers (CO H 5 OH. / Malacesty. Then the 0/50 offsall ves perdume: Whombs Dogard as a mésetule perdume 93 Smolling Substance ento a suitable 04 Incorposted

Odoms Phil Compound :-The odours compound (Steam volatile oil) are Viz, Arrafs, flower, fixatives, Rosins, Reziones, Seeds are the Ordous compound. The Proposition's present in portune: Viz, fixatives, odour fotopound, The Market of the Control of the Con vehicle. anottanal, Arxarives: Substance \$Pastives ano dregrance oil. All valacity. Then the don Leants, 000 the offxatives Viz, animal streatives, resign streatives OssentPal Pil Aratives, Prio a suitable bo to sprang



4. Winter grown oil: & organic compound. molocular Abramion Ruper dormula Cotty (OH) (CO2CH3). mosthyl esta of Salicylec acid. noman of St 98 a colonaloss, visous liquit with a Swoot colour. of It is produced by many species oldy god plant - whiter grown. of It is sythecically produced, good, bovoros and used as a Inamounts.

SECTION - P.

Ti our winn

moraphino of 8 back, · amuzipras mothy of Salicy late. that 2-hydro tonzone. methyl Mondo Solution. Substance Solveble mothyl oli and Hoso4. Donat H. 0 Meon H2&04. Neasont methyl Saltcylate. methy! Salley 1°C. 604 100 100 M Broke acont? Somont. odous alabstance aucho 97% 60VPIncol

2. The didderonce between any freial and natural effavors: There are many species drom porteme. back, fruits, flower and blossom, Posins, woods, Soods, Rhizomes, root, and bulbs, Rom process from This don the extracted The natural 1808 used into fealthy. flovous a mexical pordame Smolling Substance Discovent Incorported, Into Sustable 0 argredient There aforwar Solvent. pordeme 98 viz, in the odous debstance. Leva Levas.

matordals 8 classing, "graineding catraction, Hydron ofo buildows 4 801 ates potor mont Saguiar process of lependess and Convescation 00 -(Spage storals claso cal. 18. Tooks ( To

of Section - C.

18. Plant officer.

Bark !-

commonly used book 98

Cascarila and Cinnamon. The gragance.

is used ofther now directly

(or) puisfield 948 main Bolvent. 8

drints:

the fourth appros. Include

Strew borry. Chorry, rarely kield.

pordumony: In crunch

the

of ylang - ylang troop, which

en the Extremeted wed

essantial oil:

HPQ.

boen phrommos 29/02/6/1930 lavorder lodge and blossoms: - Pordumory. Commonly used , Patacholic, Sage, of laventlor lead crowneh logt. and blossoms: commonly used en parquinary nose and Jasmine mamosa, Euborose, In the pargume. The 98 Proto the glow blassomes.

leaves and tulgs: commonly used in pordunary of the laverder little Patacholic, Souge, voillete, etc... orle The pordeme 198 modued 9n the "grown smell on the tomato & Rhizomes and root, bulbs Rosins, Rom Seconts This species in the used the one many men porderne. from the Commonly used for a boon.

Commonly used in a boon. Coarat Soods, Oscaa, Ofc. This perdumes is used into a species of Socola. Animal. of xastives: Amberis: Lumbs and dasty compounds, tetrose precropes and secretes twood Partra extracted. He This is yellow colour. which 93 used In the Jowallowy. Castorlum obtained form the month. Amorran

### AMBIGA COLLEGE OF ARTS AND SCIENCE FOR WOMEN ANNANAGAR, MADURAI-625020 DEPARTMENT OF CHEMISTRY ASSIGNMENT MARKS ODD/EVEN SEM-2019 I-B.Sc [CHEMISTRY]

TITLE OF THE PAPER: Perfum es 3 cosmetics

		REGISTER			
S.NO	ROLL NO	NO	STUDENT NAME	ASSIGNMENT MARK	MARKS
	1 18A1401	B8S19601	K.ARUNA	Good cosmotics.	5
	2 18A1402	B8S19602	DIVYA PRIYA.P	AB	AB
	3 18A1403	B8S19603	GAYATHRI.S	Talcum Pourdon	5
	4 18A1406	B8S19604	LAVANYA.K	Touth paste.	5
	5 18A1407	B8S19605	LOGA NANDHINI.R.N	North Dalish.	5
	6 18A1408	B8S19606	MEENA LOCHINI.D	Hais due	5
	7 18A1409	B8S19607	MUHILARASI.M	Mouth wash	5
	8 18A1410	B8S19608	NANDHINI.T	cosmoti°cs.	5
	9 18A1411	B8S19609	PRIYA.M	cleaning action.	1
	10 18A1412	B8S19610	RISVANA PARVEEN.A	Differences	5
	11 18A1413	B8S19611	SARANYA.M	Bathing Soap!	5
	12 18A1414	B8S19612	SELVA RANI.A	TEM	5
	13 18A1415	B8S19613	SIVA SANGARI.R	Solid & liquid dologent	5
	14 18A1416	B8S19614	SIVAKANCINIMATHI.S	Hairdye	5
	15 18A1417	B8S19615	SUMAIYA BARHANA.K	Centro NS	5
	16 18A1418	B8S19616	SWETHA.S	Northolish.	5
O. C. Briston B.	17 18A1419	B8S19617	SWETHA.S	Tooth paste	5

ly la

Sheet No.

<del>=======</del> In gredients The list of booth paste paste is a little frighten least. on the to say the aces of many main stream as you're likely - it it'nd artibacterial preservative to the Environmental

2

Sheet No.....

<del>ૻ૽૽૽૽૽૽૽૽૽૽૽૽૽૽૽૽૽૽૽૽૽૽૽૽૽</del> shown saccharin artificial booth paste they Showd

- liquid that keeps the both paspe in gredients

out, sorbibol has

effects that if boo much is suallowed.

sodium Laury suifate (SLS) SLS is a fooming agent and detergent commercial took

paste brands add to make t Foamy. This ingredient is

dangerous béause the production

of sts results in contamination

with a carcinogenic by product.

on Isls have shown us

can have many deterrimental

\$

much is snallared.

FD & Blue Dye That fun colour Stripe your bookstaste ingredients is most likely from a synthetic dye. The center for scrence in the public interest or exammends avoiding these artificial dyes is personal care products because of the adverse impact they can have, including children, allergic hyperactivity is gren conver [in reactions, and animal studies This ingredient in both paste deserves the attention of addide 1

simply, fluoride is ingredient en our alters the and it use is. and when we have some can ect on the body including fluorosis · you not limited to, fluorosis as the and discoloration in fact the FDA how manufactures to all fluoride warning I'm serious at your bothpaste label. Mouthwash is a liquid designed to product

breath. may also kill bacheria by combining the row materials in large, stainless steel banks and then filling the product isto individual packages. First used by ancient -societies, bechnological advances in Chemisby resulted in Steadily improvi ng formulas. In 1998, Spent over \$652 the need reascul that over

\* half the population occasionally has four - smelling breath. This Eypically occurs upon first awakening or after a with garlic or onions. been found that bad breath is mostly due to bacterial activity is an undean mouth. Mouthwashes are designed eliminate bad breath in hus First they relieve is by the backeria responsible producing the fold odor. best of these products bad breath for as eight hours. The mouthwashes

masking the odor. This is a much tess effective method which lasts no more than 30 minutes.

History: or freshening breath or dearing teeth in existence many of the ancient societies Egyptians, induding the Romans preparations. a variety of ingredients materials like fruit, edible dried flowers to less honey, or appealing compounds such as

\*

urine. These products were generally ineffective and in some cases were harmful to the sensitive enamed which weats each poolsh.

white books cleaning preparations steedily improved weither the years, it was not until the early least, it was not until the early least - was developed - that bouly effective oral products became available. one of the most famous brands, Listerline was developed during the 1880 & and is shill sold boday.

\*

# Detergent:

A detergent is a surjectant or a mindure of surjectants with cleaning Properties in dilute solution. These substances are usually alkylbenzene sulponates, a family of Compounds that are similar to soap but are more soluble in Thard water, because the polar sulponate is less likely polar carboxylate to blind to surjectants and other ions found water.

In most household contexts, the delegent by itself specifically to deleagent or dish detergent, as to hand soap or other types or agents. Detergents are commonly as powders or Concentrated Defergents, like soaps, work they are amphiphillic partly ilic and partly hydrophobic. Their aware facilitates the printure or compounds with water.

also foarning agents to vacying

Let's you know about Asiel ingredients

Alcohol Ethoxylate (AE) Non-

Tonic surfactant...

and Alkyl supphate (As) Anionic surjoctan

Amine Ortide.

Cariboxymethyl Cellulose.

Citoic Acid....

cyclodexasin ...

Ethornol.

Diethyl Ester Dimethyl ammonium Chloride (DEEDMAC). function of Detergents Sheet No...

Family.	Function	Type	Function
Abrasive.	Aids the removed of a veriety of Soils from various Surfaces through Mechanical action. 28: grime, kithen	8	
Alkalinity	Docreases the alkalinity of the product to aid lisolation g dert. Substances that are		
Binders a	dded to provide adhesive properties that the olids stick ogether Rg: tablets.	. 5	
ach cursors cu	Reacts in the rash to form leach.	Bleach Catalysts (	Boots the Performance beformance beformance component of a detergent
-		e	naking it  Offective at  Lower temperature

Bleach

Rodelces the effect Builders by removing Galeram sodium casborate and magnessium Added to increase the volume of a Product through dilution, so that it can be applied at the Correct Concentration, Ingredients that can colour the

product.

BOOSTS the Activators Performanco of the bleach component of a detergent making it effective al Lower 7° too

> Soda Ash unproves cleaning Performance by raising the pH of the wash Solution

Enzymes is realing

Added to prevent corrosism

Enzymes are catalysts that increase the rate of Chemical acacten such as digestion and growth process.

controls the thickness of the product.

used to dissolve other ingredients

Added to control the acidity / of products

mannanas degrade manua containing stainis, trues ensuring through stain emoval and eleanlines

namarase

pt is a
measure of
the acidify
or basicfy
water has a
pt accound
T.
eq:
(cola.
pt-2.5)

SKILL Based-111 Dowignment, Ingredients of Dashing and Batt A. peliarani B.54 Chenistry

# Ingredients of washing

daiel detergent contains many with Long, complicated names.

a better idea of what does that, most a sist of the Common Ingredients

detergents. Let's See what Schould
about Ariel ingredients.

ded ethoxylate (AF):

Non-ionic Burgackaux. Rencorses Just Stains from afour garnenks,

Ethory Bulphote (AS):

Danionic Swifactant. Mono of the widely used today for tenroving

Dride(AO):

Anagnoteric Euglactant. used along Euglactant do remone Etains. anionic, Cationic or non-ionic.

## Consongruffy cellulose (CMO):

Jet Johner that comes from
atural Cellulose helps Stop Stains from
returning to the garnet they we been
Temored from.

### citaic acid;

Citres fruits, it's mild and helps to remove bod Smells from clothes. Kindman ins a Chelating agent.

## Cepclodextren:

Another Chelating Agent that Tenoves Malodons from the garnients. Lengt ester Dinethyl Ammonium aide OFEDMACI

de Amenonium compound in fabric Conditioner to

debrics amough.

#### EthanoL:

Jet clear, codourtess alcohot used a Solvent in detergents.

Ethyfone Diarrine Dissecciónate (55-FDDS):

Developed bep Pa) Gras a
Socieder and chelating Agent.

Hydrogen Peroxide?

Most common bleaching Agents.

Linear Alkylbensone Sulfonate (215);

Sarfactant in the world. Remove Strains som your garneents.

chonofarine;

In organic amine and Primary
used as a Solvent and a week

The PH blobance in your

To cashe nake;

Sodium Percarbonate is a blencing used in detergents.

retuglene Grycol (PEG) Poly strylene (PEO) or Polyoxiget mytene (POE);

Johnstoner Compound used for any Strings, incheding as a Subscient

Joly vingl alcohol;

and Ariel Dertometric 3 in 1 Pops.

Propylene Gréglodi

a Solvent and enzyme.

Sodium Carbonate;

The Salt of Carbonic acid is used as a Builder in degengents,

Bodiern Disilicato:

- Jused as a Socilder in detergent

Rodium Hypochloxidei

-> Al chronine based bleaching

Agents.

Sodium Priphosphate (STPP):

=> Historically used in detergents

as a builder.

Petra Acetyl Ethylene Diamine (TAED):

-) A bleacing activated and

Oxidering agent used in detargents

a bleachers.

Etracien and Petracium Dioseide:

- Theorest commonly used

Pignent.

# AMBIGA COLLEGE OF ARTS AND SCIENCE FOR WOMEN ANNANAGAR, MADURAI-625020 DEPARTMENT OF CHEMISTRY SEMINAR MARKS ODD/EVEN SEM-2019 I-B.Sc [CHEMISTRY]

TITLE OF THE PAPER: Perfumes and Cosmetis

		REGISTER			T
S.NO	ROLL NO	NO	STUDENT NAME	SEMINAR MARK	MADKE
1	18A1401	B8S19601	K.ARUNA		MARKS
2	18A1402	B8S19602	DIVYA PRIYA.P	tooth posto	5
3	18A1403		GAYATHRI.S	A1 -4 - 1 - 9	AS
4	18A1406		LAVANYA.K	Mail Polish	5
5	18A1407	B8S19605		functions.	5
6	18A1408		MEENA LOCHINI.D	Harerdye	5
7	18A1409		MUHILARASI.M	Solid & liquidates	1
8	18A1410		NANDHINI.T	TAY.	5
9	18A1411	B8S19609		Bathing Soap.	-5
10	18A1412		RISVANA PARVEEN.A	Differences	. 15
11	18A1413		SARANYA.M	Cleans agaition	
12	18A1414		SELVA RANI.A	cosmotics	2
13	18A1415		SIVA SANGARI.R	Mouthussh.	
14	18A1416		SIVAKANCINIMATHI.S	Hairdye	5
15	18A1417		SUMAIYA BARHANA.K	Abil potish.	_
16	18A1418	B8S19616		Tooth Pasto.	5
	18A1419	B8S19617		Good Co Smotice	5

ly be

II - INTERNAL TEST

Skill based course -III

Perfumes and Cosmetics

Class: I BSC Chemistry

Marks: 75

Time: 3 Has

Tate: 27.3.19

Section- A

Answer all Questions!

(10×10=10 maxks

a) Hicere b) particles c) atom d) Molecule

celle remains as \_\_\_\_ solution.

a) True solutions b) colloidal c) suspension d) none of those

3 22-plain TFM -

a) Total fatty malter b) Transfor () Total fluid matter d) All.

4 perfumes also have different classes—

a) alcohol b) compound () floral d) hon-q-these

5 Skin cancer caused \_\_\_\_

a) Hercury b) carbon, c) atom d) all.

6. chemical formula of hydrated meganisium silicate ——

O H20 b) Mg3 Si306 C) Mg3 Si4 O10 (6H)2 d) Mg3 Si4

7 Pineapple Juice contain - acid

a) week b) base c) strong d) Acidic

8) Citrus hybrid is commonly called -

a) sweet b) Butter c) Normal d) Amber sweet

9. The chemical composition of perfume is made up of

- Compound.

a) one b) Two () Three d) Five

10. A perfune consists of - y. of ethylalcohol

a) 48-951. b) 62-651. c) 40-951. d) 72-904.

Short Note on Manufacture of perfumery compounds?

(08)

Write a composition of pineapple blavour?

Write a cleansing action of seap?

(08)

Write a solid and liquid detergent function?

Short Note a ingredients of washing soap?

(80)

Short Note a ingradient of bathing soap?

write a basic composition of talcum powder ,

while a basic composition of hair dye?

Write a Manufacture of fruits plavours?

Maite a basic composition a Mouth washing

ection - C Any three

(Bx10 = 30)

- a) write a composition and preparation a Rose

  b) write a composition and preparation a Jasmine.
- Note on Difference Between soap and and detergents
- 1. Eaplain the Characteristies of good cosmeties and demerits 4 Astificial cosmotics.
- 9. Debail Note a TFM of bathing Soap
- 10. Discuss the preparation and composition of apple flavours.

# AMBIGA COLLEGE OF ARTS AND SCIENCE FOR WOMEN ANNA NAGAR, MADURAI-20 DEPARTMENT OF CHEMISTRY I BSC CHEMISTRY II -INTERNAL INTERNAL MARK LIST

Title	of the	exam: SB-III	bex from-		
	ROLL	30-13	INTERNAL	and	Cosmers
SNO	NO	STUDENT NAME	MARKS		
1	18A1401	K.ARUNA	43		
2	18A1403	GAYATHRI.S	57		
- 3	18A1406	LAVANYA.K	62		
4	18A1407	LOGA NANDHINI.R.N	59		
5	18A1408	MEENA LOCHINI.D	67		
6	18A1409	MUHILARASI.M	58		
7	18A1410	NANDHINI.T	60		
8	18A1411	PRIYA.M	49		
9	18A1412	RISVANA PARVEEN.A	37		
10	18A1413	SARANYA.M	65		i
11	18A1414	SELVA RANI.A	63		
12	18A1415	SIVA SANGARI.R	49	-	1
13	18A1416	SIVAKANCINIMATHI.S	62		
14	18A1417	SUMAIYA BARHANA.K	44		·*
15	18A1418	SWETHA.S	37		
16	18A1419	SWETHA.S	39		

46

## I Internal.

## Answer Key

38-II perfumes and cosmetius

### 1. Miletle

2. Colloidal

3. Total fatty matter

4. floral

5. Mer Cury

6. Mg 3 Si4010 (OH) 2)

7 Week

8. Amber Sweet

9. Two

10. 78-95%

Johns.

ROUNO: 18 A 14 08

Dept: I-BSC chemistry

Date: 27.03.2019

Day: Wednesday

Blam: SB-IE.

II - Internal Exam

# Perfumes and Cosmetics.

SECTION-A.

- 1). Micelle,
  - 2). colloidal,
  - 3). Total fatty matter
  - W. floral.
  - 5) Meaningy.
    - b) Ng3 Si4010 (9H)2.

Week

- ). Amber Sweet.
- 9). Two. /
- 10) 78-95%

Droen docking

### SECTION-B.

13).

a). Washing acoup;

ROLL IS A MOS

Washing Soap is a Compound which is made up of Sunfactant on the mixture of Sunfactant which are used to clean the dinty from the clothes.

Washing Soaps are also called as detergent Soaps.

Ingradients of WashingScap:

Alcohol Ethyloxalate [Non conic Substane]

Alkyl Ethyloxy Sulphate & Alkyl Sulphate

[Anionic Substance]

Amina Oxide.

Citaic acid

Coorboxylic methyl Cellulose. (CMC).

Diethyl ester Dimethyl Ammonium.

Ethanol and cyclo destrain.

All the above compounds are the main ingradients to propose the washing 800p.

Washing Soaps are not spoil their efficiency is hood water. Most & the washing soaps are non-biodegorodable.

Washing soaps are non-biodegorodable.

They don't contain the ionic propapitate.

They don't contain the ionic propapitate.

They are propased form the hydrocarbons

They are propased form the hydrocarbons

of petroleum of a coal tax.

These are the details about washing soap.

Sedium Lawry Sulphi

hydrogen percoude

5.771 Ammoria

٩

2

ي

b).

Howrdye:

Hair elye is a chemical compound which is used for the beauty to hair.

If we have a white hair thing of this elye we can able to hide the white hair in our head.

# Ingredients of Hair dye:

2.1. Hexanoglycol.

4.1. Diethylanoglycol dimethyl ether.

0.021. EDTA

0.04%. Phenatorin

5.77.1. Ammonia

2.84% Ammonium Chloride.

0.2% Sodium Chloride

21 Sodium lawyl Sulphate

increases the PH level of the Hair dye.

Forom the above compounds are the main in goodients to prepare the hair due.

Hair due are the Chemical Compounds for using these as regularly its may like before to damage one eye sites quickly like before to

yoors.

These are the details about the hair dye from their ingradients we get 100% hair dye from their

Own.

15).

b). Houthwash:

houthwash is a chemical compound liquid which is used to remove the gens from the inside of the mouth.

Instead of two time Brushing we can use the mouth wash.

Ingredients of Mouth wash:

Forom about 0.02 to 0.201. 9

ammonia

An amount of tetra alkyl metals like phentherate Salta are used sufficient to provide 0.05 to 0.5.1. of Organic acids.

### Carovier:

Grom the P.H & Said compound are adjacement about 7.0 -9.5%.

A mouthwash containing as a Cassier way ethand I mixture of water at about 60-99-1. of mouthwish.

The P.H level of the adjaced mouth worth

is 7.0 -8-5.1.

Can make the mouth upsh as own.

These agre the detail about the mouthwash.

# 12). cleansing action of Soap:

The molecules of the soap contain Sodium and potassium salts with a long Chair Carboxylic acids.

The Carrborylic acids frame troo ends from that ionic end is dissolved in water and the other end is dissolved in Organic acids.

The molecules are combined to

form micelles.

ricelles are also called two end one end is dissolved in oil and the other is dissolved in hydro (water).

The Kind of the about have two ends.

\* Hydrophilic end \* Hyderophobic end.

Hydrophilic end:

The hydrophilic ends are dissolved is water with the ends.

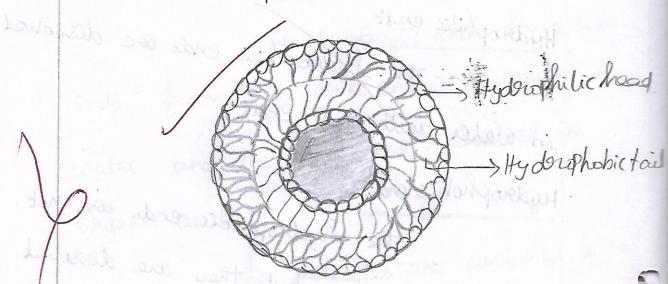
tyderophobic and:

The hydrophobic ends one not dissolved in water but they are dissolved in hydro Carloons.

The Syphace of the cluster and the formation is called micelle. The micelle which remain as a colloidal Solution. They are Scatter at the light.

The hydrophilic ends are enter to interior of the cluster and the hydrophobic ends are away towards the interior of the cluster.

Mós Celle.



and hydro Cospons.

nachulas

Aqueous Solution

they are scattered it the light

11).

Pine apple:

Pine apple are Sweetest fruits they are edible and multiple fruit a coalesceds berries are also called as Pineapple. They are belonging to the Beroliacon family.

Pereposation of Pine juice:

Pine apples are Stilled heated at 45°C it getting a juice, Missing it with citic acced and they are filtering with reasoning and the filterated are getting to the Boltling and they Should be Postuerized.

Pine apple

V

Tuice

V

Heating at 45°C

1

mixing citricacid

V and belonging . to the

Filtering yushin cloth.

Bottling and Grown Grocking.

Pasteurazisation

[ Boiling water for 45 minutes

These are the manufacture of

Pine apple juice.

hearing with masulin

at stoles



# composition of pine apple:

pine apple Contain the organic

\* Citric acid and

\* Maleic auds.

1 They have essential misserals like

\* Mg,

\* Mg,

\* Mn,

\* K.

1 They Contain Some south like,

\* Sodium,

\* Potassium and

\* calcium Salts.

1 pone apples are energy riched

fibres and Vitamins like (A,B,c group) etc.

#### SECTION-C

## 17). Soap and debergents:

#### SYNOPSIS

- \* Interoduction.
- \* Soap.
- \* cleansing of 800p.
- \* belægent.
- \* Difference between Soap 4 detergent.
- \* Conclusion.

### Intereduction:

In the following we can see detailed about the Soap and detergents and their differences

Soap:

A Scorp is a compount of Natural vil (or) fatts and is made up of Strong alkali acids like Sodium or Potassium to both. With and add perfumes and colourising agents.

## cleaning action:

The molecules of the Soap contain Sodium and Potassium Solls with a long chain Carlooxylic acids.

ons

The Carrborylic acids have two ends from that one end a dissolved in water and the other end is dissolved is organic acids.

The molecules are combined to form ruicelles. ricelles one also called two end one end is dissolved in oil and the other is dissolved in water.

The Soap of the Kinds have two ends Hydro philic and Hydro phobic end.

The hydrophilic ends one dissolved in water with their ends and the hydrophobic ends are dissolved in

hydro Carloo ns.

The Surface of the cluster and their formation is called ricelle. The Mi Calle which scennain as a colloidal Solution. They are Scatter at the light.

## Detergent:

A detergent one the Surfactants or the mixing of Surfactants in the dilute Solution.

# Difference between Sap & delegents:

#### SOAP DETERGIENTS.

They contain metal ions in the long chain q fatty acids.

They Contain Sodium tons is the long chain of hydro Carbons.

They are proposed from Vegetable oils and fatty substance.

They are Prepared forom the hydrocarbon of petroleum & Coal tas.

		and the state of t
uzzonak eta de 427 mak	SOAP	DETERGIENTS.
All comments of the Control of the C		
	They are Performed	They Cannot destroy
	and formed the Scums	the efficiency of detergen
	ie, the insoluble	They are not forming
	Precipitale Q Cast, Mg 2+,	insoluble perecipitates.
	Fezt.	
	The ionic end have	The conic end have -SozNar
	-coona Compounds.	-so <sub>4</sub> Na Compounds.
	They are biodegradable	They are non-biodegroods
	eg: Sodi un Sterate	Eg: Sodium levery Sulphate.
	They have Na&K	They have Na& K obdion
	long chair.	long chais.
	They take more	They are easily
	time to Soluble.	Soluble in water.
	They are efficiency	They have no efficiency
	to hard water.	in hard water.

### Conclusion?

& Store infection.

form the above one the explained details about Soop and action of along, detergents and the difference between the Soop and detergents.

# 18). Cosmetics:

#### SYNOPSIS

- \* Introduction.
- \* characteristics q Cornetics.
- \* Demonts.
  - \* Skin Infection.
  - \* Dunaging Internal
  - \* pamaging Nowous System.
  - \* Ageing.
  - \* Ache and pimple.
  - \* Skis cancor.
- \* Conclusion.

### Introduction:

In the following way we see detailed about the characteristics & Cosmetics & demonits of artificial cosmetics.

## characteristics of Cornetics:

#### cosmetics:

Cosmetics are the Substance that alter the appearance of the body, face and Sair.

#### characters:

A good cosmotices are tender to Soft and it is not giving a peroblem to our body.

It should be texture, odow and Comfort.

The Customor are tell the feedback to Cosmetics depend upon the physical manufacture.

### pemonits:

Using of Antificial Cosmetics we can face many problems. Majorly we face the following 6 Problems.

#### Skin Infection:

If he using the chamical cosmetics acquiarly it has making irritant, itching and allergies to our shin.

There is called as Shir infection.

# Damaging Internal Organs:

using the Chemical cosmetics regularly at two on thereo types the Chemical Should be accumulated thorough the origins and Gouses damages in the internal origins.

### pamaging Nowous System:

using of chamical cosmetics sequelarly at frequent times it penetrate the chemicals into the neouses system and damage it.

Eg: Eyeshade,
Lipsticks and
Kajal.

Ageing:
Using of cosmotics frequently
ue can able to see the wrinkles and
downers of skin before ageing.

It Greate a ageing look at

the early time is our life.

# Ache and Pimple:

An allergic of chemicals Crosts the itching, invitation and Pimples on the faces on the body.

They con the Symptoms of the allegic on the olpin

### Shin Cancer:

Due to the over usage of the apmetics Greate Concer on our Skin.

Moncury and parabons are used to presound the Cosmetics. But it will be the major grows on for couring. Shis cancer.

### condusion:

These are the debailed about the characteristics & cosmetics and the demonites of the artificial cosmetics.

90/12/19

# 19). TFM of bothing Soap:

### SYNOPSIS

- \* Interoduction.
- \* Bathing Soap.
- \* TFM.
- \* Kellens Soap noodles.
- \* Crade.
- \* Conclusion.

### Interoduction:

Fally Markes

And worlder

8

In the following way we can see the detailed about the TFM of the Bathing Soap.

### Bathing Soap :

The Soap which can be used for cleaning our Sorface of the body is Called Bathing Soap.

The ingredients of bothing and washing about the Based on the Composition of the Soap it can be determined the Soap as Bathing Soap or washing Soap.

#### TEM :

TFM Stands for Total Fatty Matter.

TFM Can be determined the quality of

the Soap in the Small and large

Scale Soap industries.

The netail of the Soop are only noticed by the people. But more than retail we can noticed the TAM grate of the Soop. Because the Soap are Separated based on the TAM Substance. They are Some grade based on TAM.

# Soap noodles:

The 80ap novolles are Contain the Batty Matter for the Sample the Batty matter for the Sample the Batty materials can be dissolved for the materials can be dissolved for the Seperation usually as mineral acids only but mostly hydrochloric acids are used to separate the fatty substance used to separate the fatty substance

The Soap noodles Contains,

\* Olefins

\* Steric and

\* palmetric acids.

G TFM. They are original branded Soap for using by human beings.

Normally, the Soap used by human beings are become 74.1.9 TFM and 14.1. of moisture Content.

Forom the Washing Soap the maximum TFM is 50%. In this Soap Fillers, elliments and preservatives are

used.

Fellows are nothing but the hand powder which are only soluble in water from two or 5 minutes.

The low branded Spaps does not followed this Procedure.

Grade:

The TFM which means Total fally matter can be divided into there grades. They are

Grade -1

Goode - ii

Grade -17

#### Grade -I:

Based on the TFM of the Scap

the Corade are depended and the

Values are also separated to the Corade According

to that howing 761. TFM which is

Gorade -I howing 761. TFM which is

Considered as the Superior of the Scap.

Grade - I => 76-1. TFM.

Eg: Power Soap.

Crade - 1 :

Based on the TFM of the Soap
the Values are steperated to arode.

Grade According to that Grade-in having
by That Grade-in having
by That Grade-in having

Second position of the Soap.

(Grade -1) => 651/TFM.

ag: Plages.

### Gorade - 11]:

Based on the TFM of the Scorp the Values are Seperated to Gorade. According to that Gorade - iii having 60% TFM which is considered as the third Position

of the Soap.

Goode - 11 => 66%. TEM.

Eg: Lifeboy.

Bellow the Grade - il are not eligible to use the human beings it is used for the pet animals.

Eg: Haman below 60-17FM.

Hamam Soap Contain \$8%. The only. It is not eligible to use the human being it is the animal Soap.

Conclusion: These are the details about the total fatty matter of the bothing : transfered to - above of and a Kuman beings tot is

CONTAIN TO SERVICE AND ADDRESS OF THE PARTY OF THE PARTY

I Internal
Test

EXNO: 18A1403

class: 2 S+ B.S.c

took roam A chemistry

Sub : 58-11

Date: 27.3.19

Sec-A

I choosing!

1. Micelle

2. colloidal

25/

S. Gayathor

3. Total Fatty mater word though

WMONE

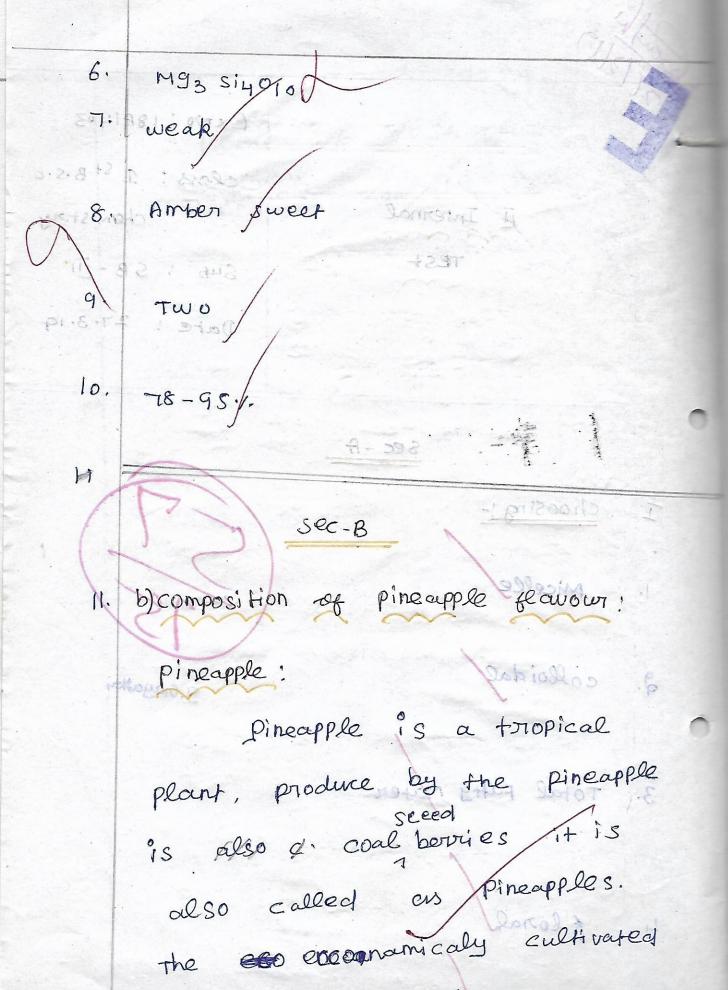
Pineapple 15 a tropical

4. \$lonal

called.

5 0500

the effe exception



\* datable human

preparation of Pineapple: detengenipineapple -> Heating (45°c). C Sugar <- BOUTART A Supstance used I with water principles Jujce sulpiteration of mulsin cloth whip sodium Heats Bevage LAGINO SHIGE OF pineapple crown and mockten 1 to 10% peroxide et water for composition of Pineapples! pineapples are most impartant of sugar corganie acid) citoic oxid essential oils, and (cu, mg, mm) (A, C, B) group of pineapples. Flavours the composition of pinapple Flavours Sodium, potassium oxid, Malic

12. a) clering action of 5.69 HD BIH Soap and detergents:

Soap :- torried - morning

A Substance used with water For washing and cleaning made of a compound of natural oils or fats with sodium hydrosvide or another strong. al kali and typically havings perfume and colouring added. 35 nother manos

betergents! 300900000

and led anna

A detergents is a surfactant or a mixture for surfaciant and (Cu mg mi) with cleaning proportium

dilute solution.

July 1

cleaning soap and

defengents:

Most of the dirt is of oily nature and oils are dissolved in water. The molecule of soap sodium, potousium and corposely acids. In case of an soap one oxids is water and oil and ionic end. second one of acids is water are discoursed hydrogen peraoscide. The soap wash help for we work cloths. In the soap stucture/ from micelle. the king of a soap mole cule is two different propertities:

\* Hydrophilic end

- bensena

Soap : gross grans \*They are metal Salts or long depen gents

chain higher fatty acids.

smonthese are prepared from

onvegatable oils and animal

pro fatsoning muibos igooz- too i

They cannot be used effectively

in hard water as they produce

Sucm. insoluble precipitares of one dissplayed

caz+ rez+ rez+e+c... hydrogen peraposide. The soop wash

ont as petergent about our on good

these are sodium salts

of log chain hydrocarbons

like alkyl sulphates for alkyl

benzena Sulphates.

\* they are prepared from hydro carbons of retrolecum or coal.

\* These do not produce insoluble precipitates in hard water.

\* They are effetive in Soft hard cor ) salt water.

hydrophilic end and hydropobic 1-

the first end of the hydrophilic end is where it is attracked to the whereas, the second end of hydrobopic acid is a water and

Dislores carbons are dissolved

in water. In the sweface

of the wash for the

Swiface.

Micelee suo best oldolly wold. Olecum 08 coal 2 mos itydrophilic should in obeide · restern The moderale soap of hydrophilic heat and hydropobic tall. Soaps are example are godium stearate detergents ex cure Law Lawye Sulphate they take time to dissolve in water of soap. They

dissolve paster in water. of deterigents. They are biodegradable. they are not biode gradable

1)a) Ingredients of washing looping Soap in \* Alcohol ethoscylate (AZ) Non monothy surfactant .... \* Albyl ethoxy sulphate (AES) and muinomo \* Alkye sulphate (AS) prioric Swifactant : Shirine Oscide Amphotoric Swifactant... cello-se (CMG) \* citric Acyd HO.0 application belongs que cyclodeassi n ester dimethye

1 19: Others

14). b) Composition of! \* 2 - hexylene glycol AD.4 - Diethyl gly col Novi monethy, water Smiter Coup. Saldis (BES) - appronium silva 84 state chlory'de amonium -Sodjum Lawyl chloride amphatori c - Sodjum chloride \*0.2 Sinfactory. \*3.83 Heated from Lawryl fythen wood chloride \* 0.04 Sodium Carbonate - hydrogen × 0.02 perapuide dimethy 20100

Gendago o

15): 6) composition of Mouth wash: \* An about 670m 0.02% to 0.20% of mouth wash is provided from organic cairies liquidipiso \* Amount of about from phynophate of mouth wash is organic 0.2.0.4%. acid :06 [P30-4] A carries liquid !- wash wash where in a mouth of a prouduce by a adjust 106

carries liquid about

a

\* Mouth wash is a carries of a liquid from the about 60% = 99% o. 80 % of mouth wash ? S \* The PH of cidjust of a carries liquid fet ra metal about form 7.6%. 10 HO Wash 18 . 60. 810 0. 2 -0.4 1 \* The PH WE mouth wash about from 7.5%\_\_ - where in a 1, 3 :18 of a twodio psecte 29 mos so

Abduppetha 11 - a)

\* Alkyl sulphate(AS) Anionic surfactour. Amine oxide. Amphotoric Mod En son Swifaetant. Carbosey met hyl collulose (CMG) sinoi suscifrici. Acid inoi suori perti sur pos so quorp Diethyl ester dimethyl Ammorium chloride (DEEDMAC). does not popo in Ethanol John bron Ingredients of bothing soap !-18.5 OUNES Office oil - moisturizing 12 ours coconut oil - For good 9 ounges palm oil-for a lather. shea butter - moisturizing 5:8 olances Lye -a.K.a sodium hydroxide 13.5 ources water

sen fectour .. detergents Soaps \*They are Na and They are Na and K K salts of long salts are log drain Chain acids. Sulporvic acids. \*They have ionic they have ionic Part coo Na part - Soz Na длоир 08 - SO4 Na quorgicture esten dimettys sommofium \*Their performance. Hard wester decreases in does not hard water affect their efficiency manediants They take time They dissolve o dissolve aluo faster in Tin waternes zono swaper. some detergents They are biode gradable and not biode objectived Ex: Sodium gradable Ex! Sodium Steanate

0 0 ... 0

preparation and composition:

Flavor !-

composition :-Malic acid (E296) aqua and vegatable oils, sugars arch, citaic acid and Nicotina tide palmito orcid (ESTO); purines sodium, palmic acid, and copper line phophorous Flavours and apple Flavors. and anti oxidant.

Apple flaugur!

An/apple flavour an Sweet and flavour of

apple træs, the apple

flavour is cultivated world

ila send

green genus

preparation of apple Flavour: Apple and picoHna wash The order (600), puring Press -> Promace Proportion is flavours two 2 mans Juice Add sulfiter and enzyme of water leagest The purpose for 1 how Add invitent and year Loves . The off cultivated worked

Ruck

less

Soak the planers overnight Adjust of 302 blend Adjust of and proservative so2 blend and downer same of all all or soups carponate Filtering reducing. of microbilal boH-le Bottlemiz Monow Apple beauours an sweet. the preparation of apple feavour of sulphuric acid and proservative. and over a 1/2 - 14 directs The bount as medl.

a) preparation of trasmine: 16. Jasmine composition

Soak the flowers overnight in a cheese cloth-lined bowl and cover it with a liel. Squeeze with the journine pouch of flowers over a sourcepan, extoract and the Flower-Scented water and simmer lover law a heat until goy are the Jasmine left with a about fospoion of liquid.

> sulphunica acio Jaymine preparation , wow

take the esseptial oils of and over a 16-14 drops THO DOWL as well.

bound and

D-H-09

\$ 20 one east missing, making sure the ingredients cure dispossed as throughy as possible.

takmine definition The Jaymine flavours pour the contents of the mixing boil into small and cooking por A port the pot onto the Stove and set in low heat. May and yellow \* wash the blowers of the

perals gently clean off any dirt and seament with water. Ignord dosponia

Sook the Jaymine of pur chase cloth bown with

allohol

water, in the flower - Scented

Bottle the persume.

Jagmine definition;

climbing plant which is

popular as a nametal and be ars braggiant white, pink

and yellow feavours.

b) Rose composition!

citranelyol, genandol, hero),

linalcol, phenye/ethyl alcohol

Fairnesol, Stearoftene, d-

pinare & pinene d\_ferinene

camphone, B- caryo Phyllene, nerial eitronellye excepane, gerange acetane, herge eugenol, geoange acetane, netye eugenol, methye eugenol rose oxide d- dasmasterione, benzeye alcohol. RISE preparation of Rose: \* Grather 30 - 35 V. 808e

preatals.

\* put in them in a

\* pour vose pepals in

cup. 06

EAR

Roll No: 18A1418

Date: 27.3.19

class: 7 st chemistry

Exam: Skill Based - Til

T) Week

Section - A

Answer all guestions:

1) micelle.

2) colloidal

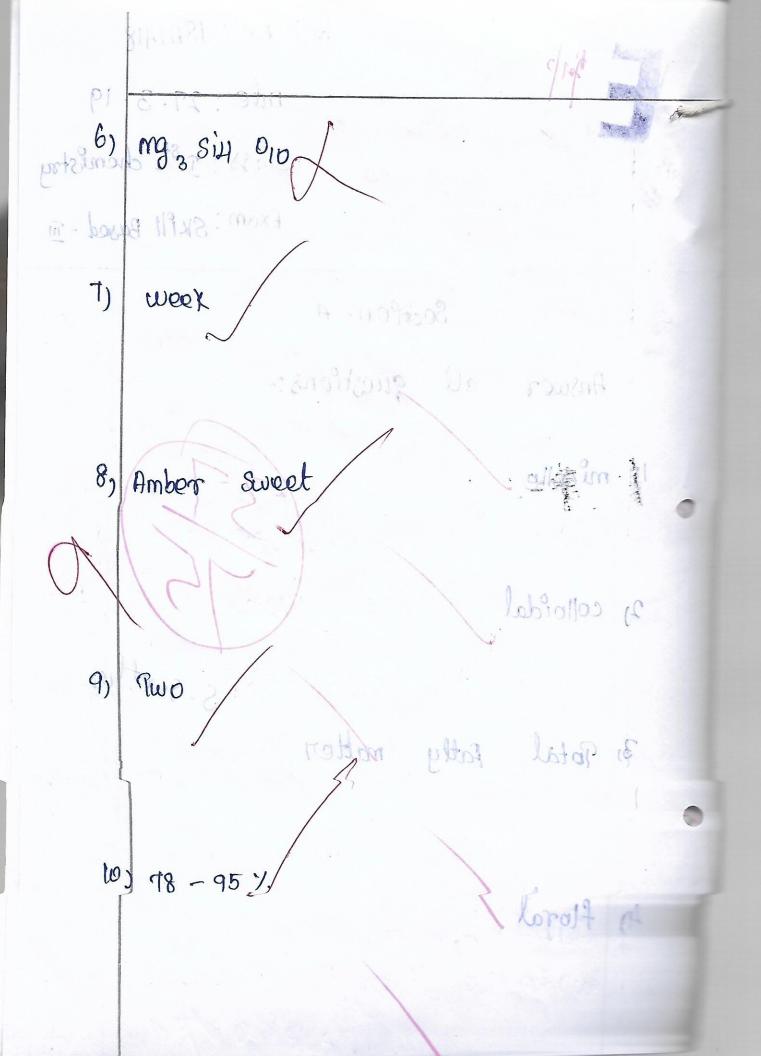
31 Bill fally marker

s. swether

Ambe

4) floral

18) 18 - 95 J



Section - B

composition of pineapple forman:

prheapple are an

rethylana glycan mono Proportant Sugar, organic actd

(citale acid) essential mineral

(mg, mn, x) fibres and virtamins

(A, C, B) groups nomen nutritions.

pineapple suice contained

acids and malic acid like

and the sodium potasspum etc. by .x of of !

1.5 60 EE

14) b) basec composition of harr dye: e; prompt = 3/ddbuld to ustissmuss (9 2%. hexydene glycol 4% diethylene glycod mono ethyl. Perpertant Sugar, organic aced 5.77%. ammonia 2. 84% ammonium chloride Frency and victomins 27. Begg. Sodium dauny Sulfate 2.2%. Sodium chlonde 19.3% hydnogen penexille Solono. 4% phenace fin. acil 0.27. EDTA The sodium potous rum I to lox. by weight of a possible at 9 pH of about

13.6) Ingrolients of bathing soup:

Comparision for sadeum tallowate, Sodeum cocoate, Sodeum palmate and all of Progredeents of bathing Soap & Godfum coconut; sadrum tallousate, sodrum palmate) respectively due.

Ingrients of Scap making:

18.5 ounces olive of - maisturizing 12 ounces coconut oil - for good lather, 9 ounces palm oil - for a time bar. 1 ources shea butter - maisturiezing 5.8 ources Lie - a. K.a goden hodoming

Section -c 17. Difference between Soap and detengen multiposite, sedeum coccute quos cotacum

2 Hosbinson A Substance wed with water for washing and cleaning made of a compound of natural ofls or fats with sodium. hydroxide or another strong

alkalio and typically having portume and colowiting added.

detergents in med comp A detergents is a Compage Juc , a. K.a. Soften hodgroxide

white or a wexture

1/2/2

15.6) Basic composition of mouth wash:

a) prom about 0.027. to 0.20%.

of a quarternary ammonium compound.

b) an amount of a tetra—

alkall and motal pyrophosphate

Salt sufficient to provide from about 05%. 5% of the p. 0, 4

Species.

c) a carrier liquidin

where in the pt of said composition is adjusted to the range of from about 7.0 to 9.5 with a minoral or organic acid.

an ethanol/ water mixture and is present at a level of from about 10 y. fo. 99y.

The p# of the composition is adjusted to the range of from about 7.0 to 8.5.

12)a) cleanging action of soap:

The cleansing scap

was there No2 and Kalong

charn acids. They give portformance

In hard water they take time of cleaning scap It's days, brodignadable of cleaning.

EX. Sedlum Sulfact.

the cleaning scaps action. two types they are shoppeto \* hydrophelic good bro de grand phot y are of and and stos colling source philic on sol - sharple soap was cleaning agents between dittry and dry cleans washing soap contains kinds 61 Ingrients they are Aleohod dulase de scolut

man alinealal

e/ref

17.0	Difference are	Scap and deterge
Continue	ypes they are	
	Soap siledon	detergents
*	They are k and	they are k and
	May Salts long	No2 Salts long
	chain acids.	
1		chain Sulfwire acids.
*	Pon parts-coona	ion parts - so <sub>3</sub> na
ZNOGO.	and drive clea	and - Soy Na Pons.
*	Thoir performance	Hand water does
	decreases hard	not effect their
V	Long Water 900	efficiency,
*		they dissolve
	dessolve in water.	fastor in water.

[8H1418]

preparation and composition of apple Havout:

Apple
Pressing

seeds





## Skill based Course-III

ANNA NAGAR, MADURAI-28

PERFUMES AND COSMETICS

6/4/19

Class: I Bsc chemistry Date:

Marks: 75 Time: 3 Hrs

D) Flowers

D) None of these

D) none of these

D) Ethane

D) a and b

D) All

D) a and b

D) a, b and c

D) All

**SECTION** -- A (10 x 1 = 10 Marks)

Answer All Questions:		
Choose the correct answer:-		
1. Perfume is athat en	mits and diffuses a fragra	ant order
<ul><li>A) Flours cence</li></ul>	B) Substance	C) Alcohol
2. Perfume comes from the lat	in from 'per' meaning	Mark Control of the C
A) Through	B) Fumum	C) Smoke
<ol><li>Artificial perfume examples.</li></ol>	***************************************	
A) Castor	B) Musk	C) Ambergris
4. The soap made a compound		
A) Natural oils	B) Sodium hydroxide	C) A and B
5. Potassium salts of long chair	l	
A) Carboxylic acids	B) Methane	C) Alcohol
6. This the soap molecules form	n structures called	
A) Micelles	B) Ionic	C) Hydro carbons .
7. Ingredients of washing soap.	***************************************	ga s
A) CMC	B) Citric acid	C) Sodium hydroxide
8. Demerits of artificial cosmet		of obtain in a locate
A) Skin infection		C) Pimples
9. Fruits classification		e) i impies
A) Berries	B) Drupes	C) Pomes
10. Composition of mouth was		C) romes
A) Ammonium	B) Pyrophoqhare salt	C) Nana of those
Constitution and Consti	-7. 7. opnognate sait	c) None of these
	Section - B (5 x 7 = 35	Marks)
Answer All Questions:-	00000011 D (5 X 7 ~ 35	ivial k5)
11.Define perfumes plant and a	nimal source	
(OR)	miliai source	
Characters is ties of good ve	hicle fivatives and its tur	
12. Preparation and use of met	hul anthranilate and me	othyd aaliaulata
(OR)	ilyi anunannate and me	etnyi saiicylate
Preparation and use of cou	madia and ballatas	
13 Rose and issming composite	marin and nellotrope	
13. Rose and jasmine compositi	on and preparation	
(OR)		
Only composition of apple a	and pineapple flavors	
14. Difference between soap ar	nd detergents	
(OR)		
Cleansing action of soap		
15. Demerits of artificial cosme	tics	

(OR) Composition: Nail polish, Mouth washes

#### SECTION – C $(3 \times 10 = 30 \text{ Marks})$

#### **Answer any THREE Questions:**

- 16. (a) Eatration of essential oils by distillation
  - (b) Enflurege and solvent extraction methods
- 17. Preparation and use of phonyl ethanol, citronellol vanillin.
- 18. Composition and manufacture of perfumery compounds Rose and Jasmine
- 19. (a) TFM of bathing soap
  - (b) Functions of ingredients in detergents
- 20. Composition only.
  - (a) talcum powder
- (b) face crème
- (c) Nail polish (d) Hair dye
- (e) Tooth past

# Model Saam Answer Key

1. Substance

a. All

3. Constor

4. A and B

5. carboxylic acids

6. Micelles

7.00 and b

8. a, b and C

9. AU

10' a and B

### AMBIGA COLLEGE OF ARTS AND SCIENCE FOR WOMEN ANNANAGAR, MADURAI-625020 DEPARTMENT OF CHEMISTRY

#### ASSIGNMENT MARKS ODD/EVEN SEM-2019

I-B.Sc [CHEMISTRY]

1 10.00   011111111111111111111111111111		"
TITLE OF THE PAPER: Porfu	me & Cosmette	S

		REGISTER		1
S.NO	ROLL NO	NO	STUDENT NAME	MARKS
1	18A1401	B8S19601	K.ARUNA	31
2	18A1402	B8S19602	DIVYA PRIYA.P	42
3	18A1403	B8S19603	GAYATHRI.S	31
4	18A1406	B8S19604	LAVANYA.K	54
5	18A1407	B8S19605	LOGA NANDHINI.R.N	58
6	18A1408	B8S19606	MEENA LOCHINI.D	54
7	18A1409	B8S19607	MUHILARASI.M	49
8	18A1410	B8S19608	NANDHINI.T	145
9	18A1411	B8S19609	PRIYA.M	27
10	18A1412	B8S19610	RISVANA PARVEEN.A	34
11	18A1413	B8S19611	SARANYA.M	<u>C3</u>
12	18A1414	B8S19612	SELVA RANI.A	49
13	18A1415	B8S19613	SIVA SANGARI.R	. 28:
14	18A1416	B8S19614	SIVAKANCINIMATHI.S	32
15	18A1417	B8S19615	SUMAIYA BARHANA.K	32
16	18A1418	B8S19616	SWETHA.S	29
17	18A1419	B8S19617	SWETHA.S	la'



ROUNO: 18A408

Dept : I-BSc chemistry

Date: 06.04.2019

Day : Saturday

1) vehide (or) Solvent:

Exam : Skill Bosed - 11.

SECTION -B.

Model Exam.

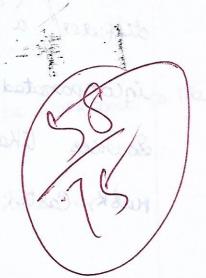
## Perfumes and Cosmetics.

### SECTION-A

17. Substance.

that ends and

- 2). Fumum.
  - 3). Musk.
  - 4). As and B.
  - 5). Cooborglic acids.
    - Micelles.
  - 7). a and b.
  - 8). a, b and c//
  - 97, All.
  - 10). Ammonium.



Connot be made.

ROLL NO: 18840

Dept: I-BSc dyamatry

Bate: 06.04.2019

phoentos: Bush

SECTION -B.

Yorkumas and cosmous

Model Exam.

11). Vehicle (or) Solvent:

perfume:

Exam : Skall Based - 12

perfune is a Substance that emils and

diffuses a fragrant Odour which one

incorporated to the plants and animals

Sources like Flowers, leaves, petals, book, Amber,

rusk, Castor etc.

Generally, The main ingradients of

the perfume one,

\* Vehicle (or) Solvent.

\* Frantives and Ilm D (F

\* Odowijowous Compound.

without those ingradients the perfume

Cannot be made.

V/HO AS

0

### Vehicle (or) Solvent:

The Vehicle (or) Solvent one the compounds to make a perfume,

These Vehicle have some characteristics.

The main characteristics of the Vehicles are

i). It must be volatile:

i). It should not be irratout to the

human Skin.

iv). It must be insert and

non-odguer Compounds.

Because if the Solvent emits the own odove then the ingradients doesn't exhibit to Come their bragarance.

Vehicle mosobant: Cizatives: the pixatives are the agent to fix the fragrance of the Sources. Fixatives are Four types, namely \* Animal Finaltyps, \* plant Figures \* Resource Fixatives. fixatives one also one of the ingredients eschent emily the of the forfune.



12). Nethyl Saliglate:

\* Methyl Salicylate is a organic

reducidas weight

Compound.

\* Ite is the ester of Salighic acid.

\* It is a volatile liquids viscous nature.

Footcontrest

\* It is Solvable in Organic Solvents

like Elhanol ((24504), Melhanol ((4304))

1 It is natural proposed from the

Plants of Wintergrown.

\* It is mostly occurs in Cooling places

like Switzerland, Carada etc.

Structure:

promotion of the

Methyl Salicylate, Or,

12) petry Balighate:

# Proporties:

chemical formula: CgHgO3.

Molecular weight: 152.51 gm/m

poensity: 1.174 cm3.

Molecular formula: GH5 CH2(OH) CO2(CH3.

Pereposiation:

\* Nethyl Salicylate is prepared by

esterifying the Salicylic gold with

methanol and Con. H289, /

\* Methyl Salicylate is maisly used for neleaving the muscular and joint pain of the bones and musiles.

## 14). cleansing action of soop:

Soop agre commonly Perspassed forom the natural oils and sodium hydroxide. Soop are used to washing the dirties from the clothes and somme the distiles from our body. The Soap which sumove the dist from body is Called bothing Scap. The Scop which genove the disty from the athes are Called washing soop (00) detengent. Both the Soap ingradients are differ. The natural oils Can be depostated from only the mineral acids but usually hydrochloric acids are used.

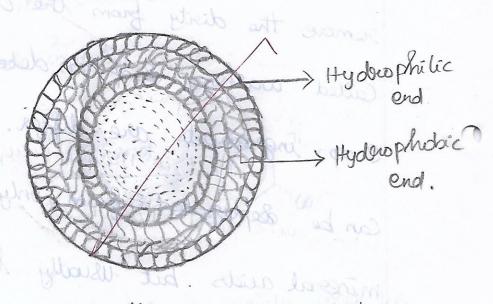
The falty Substance have two ends.

one end is dissolved in water and the other end is dissolved in organic Substance.

The clusters of the falty Substance are form a micelle, picelle are the Colloidal Substance.

804 Tha

The rutiped oils



Micelle in aquesus & Solution.

Beckelylon

Soop Kinds have two ends. They are

i) Hydrophilic ends.
ii) Hydrophobic ends

tydrophilic ende are dissolved in water and tydrophetic ends are dissolved in organic substances.

hydrophilic ands are towards the interior position but Hydrophobic ends are away from the interior Position.

, our prestion,

African and pingles.

exis Carles

10/n/2 H

# 15). Demonts of Antificial cosmotics:

## cosmetics:

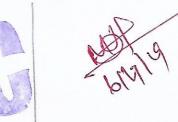
appearance of the hair, nail, face and our body. In the artificial cosmetics the Chemical Substances which causes many!

Chemical Substances which causes many!

Problem to our body. Some as them are

- \* Danaging of Internal Organs,
- \* Damaging of newous dejetem,
- \* Skis Infection,
- \* Ache and pumples,
- \* Skin Cancer

50



# Skin Infection:

For the continuous applying of it causes the infection which cosmetics it causes the infection, it ching etc. means it create an irrelation, it ching etc. This is called as other infection.

Acks and pingles!

Shin Cancer:

In the artificial Cosmetics

Mescury and parabon can be used to

paresone it.

The chamical Substances like

Heaviery and pagrapans agree Causes the

ex in Cancer

Wanticola which prosection the country con

domage the namon Bystemi

North polish, Kajal, Hushasa, throughing

Esample!

R. May

## Ache and Pimples:

For Using & unfavourable cosmetics it will start to Gosta alleargies which causes the pimples and ache to our Skirs.

# Damaging of Internal Organs:

For the daily use of contifical cosmetics the chemical Substances penetrates the chemical Substances penetrates through the internal organs and it can be

damaged.

## Damaging of Newous System:

For the wage of cosmetics the chamicals which present in the cosmetics can damage the newous Bystemi

Example: Nail polish, Kajal, Mushava, Hoodning

#### SECTION-C.

Buttlationic

il)

16).

a). Distillation:

DELL PLANT

opened without

SYNOPSIS

\* Introduction:

\* Distillation.

\* Steam distillation.

\* Maceration.

\* Conclusion.

### Introduction:

In the following way we can see about the distillation methods for the extraction of essential oils.

### Distillation:

The essential oils forom the plant and animal Sources can be extracted through the distillation method.

postillation method means the ports
then be coushed and boiling their points
then the gas vapours are collected through
the tubes is called Distillation.

These are many types of

distillation.

\* Steam distillation.

\* Solvent Duhaetion.

\* Enfluorage.

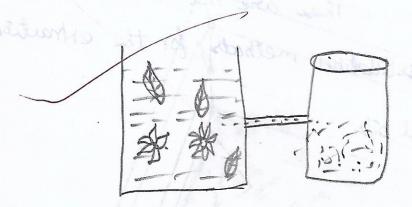
\*Maleration and

\* Extraction.

1919

## Steam distillation:

In this distillation the plants are boiled well and the Vapours comes that fown the plants over connected to the Collecting tubes. Here the Vapours are collected. Then the collected Vapours are in ethyl alcohol it gives perfume



Steam distillation

PHI)

## Macoration:

It was likewise enfluences and steam can be steam distillation but the warm can be neglect. The greage and steams one distilled. Then the school like ethanol can distilled. Then the school the execution oils.

Conclusion:

These are the details growth of the distillation methods for the entraction?

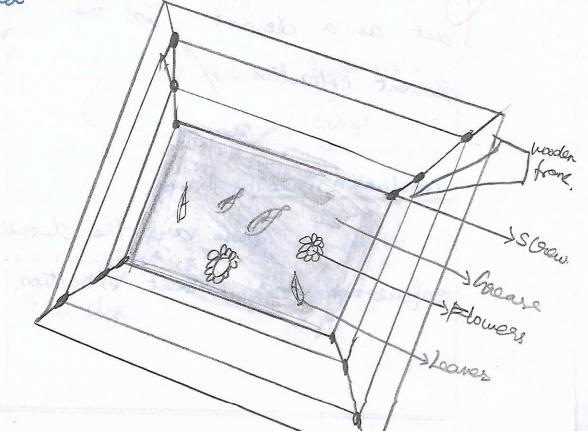
## b). Enflurege and Solvent Extraction:

Enflurage:

be placed in botwoon the wooden brame with grease. Heating the brame and the grease until the plants can be boiled.

Now the ethyl dechol (an be used to extract the essential oils.

sowert Edications



### solvent Extraction:

In Solvent Extraction the Plants
On be vapourised and the ethylausohol
is used to extract the exertise oil
from the Plant Sources:

act as a downt in the Solvent extraction.

### Conclusion :

These are the details about enfluerage and Solvent extraction.

(PI

20%.

a) TEH of Bathing Stap.

d). Hair dye:

Composition:

acz.1. Ammorium

0.04%. Ammonium hydroxido.

12% frydorogen pegronide.

Q.Y. ESTA.

0.2%. Sodium hydronide

21. Sodium lawyl

0.05 1/ Ethand.

These are the Componition of

hair dye.

### a). TFM of Bathing Soap.

Both the Bathing Soop and washing Soop have the TFM.

"Total Fatty Matter". [TFM].

TFM can be determined the

quality of the Scoop.

The fatty matters contain the molecules

which can be Separated by mineral acids

usually hydrochloric axid.

Hydro Philic & Haydorophobic ands

are presented is the Scop.

According to the TFM Goode Can be

Separated.

Goode-I => 75 %. TFM

Creade-I => 76-70%. TFM

Grade-II => 65%. TFM.

These Grade the Doop Cannot the human. It is only for the

pet animals.

Normally, the Soap Contain 97.81.

g TFM and 2.5% & moisture content.

The Seap noodles contain the The order of the noodles can be determined the grate & TFM.

ter

### Croade - I:

The Soap which contain 7517 Fm is Considered as heade -I.

MAT. V. Ez: Nilla \_ 764.

heade -! !

The &cop which contain 73-404. TFM &

considered as coade-1.

Ex = Pears - 73-1.

Croade -12:

The Sosp which contain 65%. TFH

is considered as Goode-in

En: Lux - 65%.

Dolow heade:

The & oap which contain below 65% The doesn't use for human.

62: Hamam - 62%.



## b). Functions of indoodierts:

The Soap Can be prepared by the natural oils and Sodium hydroxide. The Seap which gamese the dist from body is Called Bathing Spap. The Soap which granow the dest from clothes a called washing con deterigent. But Both the bathing and washing Soops have the different ingradients. Detergents can be Solid & is liquid

Soop bakes more time to dissolve in water

than compared to the detergent.

It doesn't effect to the warm vates.

The molecules of detergent.
The molecules of detergent.
The molecules of detergent.

when compared to bathing Goap it becomes very hard and it contains

Na & Colombia

Detergents are having mine the chemical Substances when compared to the bothing Supp.

### conclusion:

There are the details about IFM of batting Soap and princtions of detergents.

Maria Contraction

ROLL. NO: 18A1417

Dep: T. B.sc (chemistry)

Date : 6.4.19

Enan: penjumes and Cosmetics.

. Compounts.

Section - A

Answer:

1. Substance

2 AU

3. castor

4. A and B.

carbonylic acids

micelles

T. eittic acig

8, a, b and c

9. Doupes Laboure

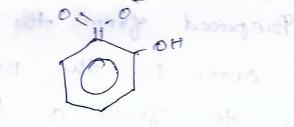
10. Ammonium

Solveruts.

- molecular formula

, salicylare?

	Section - B
sta was	characters is dies of good !/eliele
	fixatives and its types?
and	* It should be a good
- 201	odars. At It should not be another
	compound.
	types of fixatives!
	* Animal finatives
1	* Synthetic fixatives
	* Viz and Vehichle Dixatives
	* Plant Tixatives.
	and Hard
12.	Preparation and use of prettyl anthranilate and methyl satisfate?
	anthranilate and Methyl saug
	Methyl salicylate:  * Oraganic Compound  Compound  Compound
	Molecular formula (16 H4 OH). (102 (113)
	& Insulvable in Oranganie
	Solvents.  ** Methyl Ether is Methyl
	salicylate. Ether is Methyl Salicylate.
	· Se On Se Polonialoss Sixoot



Methyl Salicylate.

Perepared from the Methonal React to H2SO4 of salicyclic acid changes and to form a Methyl salicylate.

Salicyclic acid Methyl salicylate.

Methyl anthranilate:

methyl ether is Methyl

anthranilate.

methral

Jornela. (C6H4O2.Na)

Cooka

Perepassed from the anthranilate acid react to the methnal and H2SO4 to foom a Methyl anthranilate. on the typetheria COON 9 COON 9 Rothranilate methyl anthranilate composition of apple and pineapple flavors : Composition of apple Apple is contains Citric acid, mouic acid, pottassium, Vegetable oils/ugas, sodium, Dron, zin, sopper, calicum, Apple

Dron, zin, copper, caticum, APP lontains most of citric acid. Oralic acid, salicylie acid.

Duons



mon sist on

## Composition of pineapple flavors:

\* Pineapple are important source is ugas, orangic compounds (citric acid)
essential oils (mg, k, Na, I)
vitamines (A, B, D, c), minarals

\* Pineapple Juice Like Week acids eitric acid Malle acids and Sodiam, pottasium Calcium salts etc.

15. Composition : apphoid and part

Mouth Washes:

to 0.20 × ammonium salts form about the itera akalın metals amount of the mouth wath.

Akalin pyporosuphate salt sufficents

## Difference between soas cletergents

### Enou Soap onwood

Detergents.

They are Na They are Na and k Salts are and k salts

Long Chain acids are Long Sulphon alids.

The Ponic parts The wonic parts - copna acids - sozna and

\* Rincapple Jair

- Soy Na actals.

They are biodege \_dable.

Some detergent are not biodegedable

EXU: O MUSINGWIMED Soolium Sarlate

Low money week

Ex!

Sodiam Lawy sulphate.

They take time olissotre in mod water.

amount of the Month faster then dissolve > water.

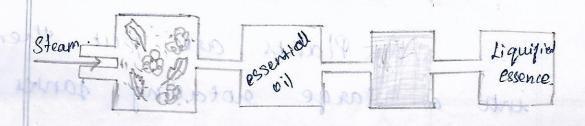
Hand water

Handwater not

16. (a) Entration of essential oils by distillation:

# (i) Steam distillation:

Flowers are put them into a extract form the essential oils by distillation. The Steam distillation Steam is Possing through essential oil to form a gas convent to essenence of liquid essence. These Method are the called Steam distillation from the Entration of essential oils by distillation, destame of essential oils



Authority Bland . B. Island Cont. 61 Bill

## (b) Enjoying and solvent Extraction

## Enlurege:

- no in 11992 in

percentical oil

of hospital

Plant Meterial powers through glass sheet with grace on the the extract from the wooden glane

Wooden O

Buissond.

Englusege. This Method is proceed through Press the Wooden Jame extract an Plant Meterils extract form the Perfume of essential oils.

## Solvent Extraction:

Plants are pet them into a large protating tanks or dulim! and



A Tula

Petroleum ether. These are poured?

ever the flowers.

Benz Benz Benz Benz Benz

Petroleum ethica.

### Solvent Extraction.

The flowers are covered to the alcohol the alcohol the alcohol and Evaporate on the alcohol and offses. Once beanes fully tured off trigher Concertion of essential

CHI OH . NIO

These Method of the is the solvent exact ration and Enfluege of the essential oils of the distillation Methods.

MATCHE Great Valuable

Prepartion and use of POERCHELLIN BAKER.

Vanillin:

· Hice of provents. vanillin prepared form the Eugonal of gore smilling agents. It is process through form the

Vanillin.

MO EVOLUCIONE HO (a) & oct > V. OCH3 essential +HCHO -CHO

the obstillation methods.

$$CH_2OH$$

$$CH_2OH$$

$$CH_2OH$$

$$CH_2OH$$

$$CH_2OH$$

$$CH_3OH$$

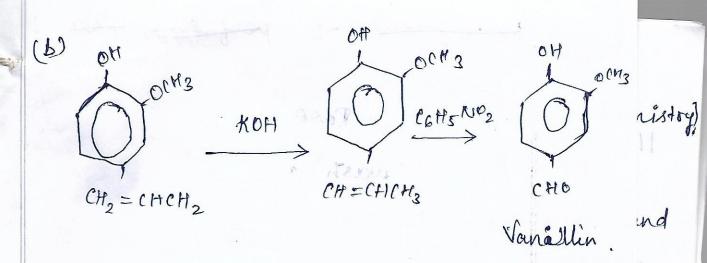
$$CH_2OH$$

$$CH_3OH$$

$$C$$

4, Methony 3- hydrony benzadihydl. sylwege of the essential oils

CHO Vapillin.



uses:

of columny agents.

\* used for Dee cream and cholate.

18. Composition and manufacture of

Perfumery compounds:

Rose:

Rose is smilling agents. It is kinds of many thing. perfumery odoras. Compounds. Kind of Golours.

Preparation of Rose:

⇒ Gather 06 30 to 35 Rose Betale.

> Aut them into a bowl.

Essam No: 18A1412 Examination. class: 1st years Section: B.Sc Chemistry Cosmetis Andrews RouserA Perfumes Subject: Perfumes lamine but tool the covered answer T. Choose 2 mules 2 Substance eff francising smell The bombarg A and B corboxylic someter loventon Micelles 2 A and B A, b and c 8 skin enjegtion

Model Examinate self sold book Questions: perfumes plant and unimal rower someway Porfume is defined is of flavouring smell. The Varjaieties are produced from fruits, plants, regetables, oils etc. positiones is educided Into two types they are the natural perfumes and synthetic perfumes. The perfume is used to feel good to us. The perfumes are flavours. The perfunes

plant and animal sources the perfumes have the more or loss amount of flavour since this plant and animal Sources. The perfumes rave in the vanimal forme part of things used in The perfumes to make our calous on Howard then the plant Solveres grape Like that But the plant sources have many variables like weed to like Colowing, Manowing, Smelling etc. The plants and animal Sources produce many Mareities et Kinds in plants perfumes. 22 print Therese age the plant and animal sources

14) Difference betweening, soap and detergent gram soft suar semulas Some trade The toop is used gemore duty and stypin athings. The the dety the delengent the deternant the deternant the delengent the del The Scap majeats with take pouder. hold that stain that Clothes we say they remove that dist vory much useful The scapularios priverent co formand do sus. Attents lamines pour to semente and Adorgents and detergenes the There sap tody strong respect to thing Of THE

to us. The soap and detergent ejeads was a cleaning substances. That detengentique la pouder en oused 40 clean the bacterial, fungi etc. They doesn't have a bacterial use there and they schehes, fungal bail activities noge Min Speares of the diseases where caused Tops raffect the body. The Cleaning enterion of soop and deterrants is aused man to alean when distyness of bacterial and fungal weatherties. They have en a pactorial rules and Divitating sking work on our body the this caused diseases delengent 18 mused to aword

Demeritation possetfical Cosmetics? In the sartifical cosmetics more chemical substances to they have m raye affect the thin, la the cosmetis party eather autificial cosmetics rayed more boxus of les promosphe natural respectives and the natural. cosmetics we good to health. The writifical cosmetics are of eq. lep stick of foundation, skin drecumation set fall has chemical we apply the fream Substance d'Once me Instant siglow. ne 3 Show Colean me regularly wise? free gass.

should not stop immediately. Because they affect out skin or one face landlike man dull and show in pemples. But the nature is not like without whenevery want to use that time above eve will use. The contifical cosmetics age not good for skin sometimes it causes Inches in the skin and crainly Causes the Pimples due to artificial Cosmetics. The subjicial cosmetics have mare discuartages it is not good to they dry skin. so we use the natural rtand products of the cosmetics do skin 32 now cause only the good thing to skip. Seas

Should res- noutres immediately. Ecouse Answer the following: befor part elfonig in works to the phonyl gethanol, erale at jonellon Vandlin? 29 La Land Los Chanol ethanol thous persons Eldier II page rive stin lastibed Of entition Eosmetic man the paper for a great the process of muse The Column the cosmetice as sur only the good thing to stin

(a) Thy baltung soupersilone [ [d] misbergu & ontherroffen-entrotal falty Matter in the soup and detergents. The mainly, Tem is simportant, to the scap. digothest sap and deterigents win the knowing otherless. The ingredients of & grade ex enter betrou glycoure, wanted the scaps wer flavour, oil, colowing agent, otc. The Scap. have a grade account in the Tem. The 76.1. If the Soap is garacle the TENT. The total fatty matter In the soup and detergents the Proportions Bortion of soup. The TIPM is used know

[b] Functions, of ingredients In delorgery petto! I plot loss The infunctions of ingredients an detergent to add all the wanted materials to make a detergent wanted and we that the mining.

Powder and we that the mining.

Clother with ingredienti in ideberigents large valson wanted the Tring of popule Coupt or detergent. france a grade account The The Sap is gode retion pto f lotos The total fatty matter is the scap and destroyents the Proportions Barpison of mon to the is and wood and It to land at

SUBJECT: Perfieme Sp cosmetics

						ASSIGNMENT		SEMINAR		
RFG1 NO	NAME	I,	I <sub>2</sub>	М	AVg	A,	A <sub>2</sub>	Sı	S2	Total
B8819601	K. Asuna		43	31	43+31=10	5	4	3	4	16
B8319603	S. Gayathai.	36	57	42	9,9	5		A server contraction of the cont	5	20
B8S19604	K. lavanya		52	31	9, 3	5	A Commission of the Commission	5	4	19
B88 19605	R.N. Loga Nandhini	51 	59	54.	11-5	5	4	e minima de Presidente de La marco i sprincia del marco i sprincia de la marco i sprincia del marco i sprincia de la marco i sprincia della dell		21
B8319606	D. Moenalochini	70	67	58.	13.7	5	4	5	4	23
B8519607	M. Huhi borasi	46	58	54	11.2	5	an to remain terments in the present chancer.	5	errectassicmere christist elever	21
383 1960 8	T. Nandhini	32	Ьо	49	10.9	5	4	5	4	21
B8S 19 609	M. Periya	32	49	45	9.4	5	4	A-j	3	18

			and the second of the second o			STATE OF THE PARTY		anne an deren hanne spread by the pa	ally distributed described and distributed described	
REGINO	NAME		T			,	GNITTENT	-	INAR	one.
		I,	T <sub>2</sub>	M	Avg	A.	A <sub>2</sub>	3,	S <sub>2</sub>	TOTAL.
8319610	A-Risvana paowaen.	20	37	27	6.4	5	14	4	3	15
1819611	M. Saranya	41	65	34	10.6	4.5	5	4.5	4	20
S19612	mar Jan A. Selva - 7.45 Nila and and an and an an anning	37	63	\$3	11.6	5	4.5	4.5	4	21
831 <u>9613.</u>	S. Siva Kanchanimathi	87	62	49	1111	South a control of the control of th		5	L)	21
3819614	R. Siva Sankavi.	28	49	28	A L	5	4	5	are unace and an experience of a firm of	A A A
88919615	K. Sumaiya Burhana	36	444	32	B.	5	4	5	4	18
8319616	S. Swelta	26	37	29	6.6	5	4	A'S	encina l'uniconeuro en esperimenta d'assert	The state of the s
3819617	S. Swetha-	14	39	a	5.3	5	4.5	4 5	ar Otembri vermini vermini vertina visita vari	14
			and a particular of		anie Welfereit febann auf priedlyk	mallis ministranakougues	Along to control and the control and the con-	o en sicilità a compressa de la compressa de l	ett y til fra de antique tre l'experience a	and the state of t

1 2 1

by be

#### STUDENT FEEDBACK FORM

7 7	S FEED BACK FO MIC YEAR 20 Class: Department:					
Name: Semester: I/II/III/IV/V/VI(put a v tick)	Class:	20				
Name: Semester: I/II/III/IV/V/VI(put a v tick)	Class:	- 20				
Semester: I/II/III/IV/V/VI(put a v tick)						
William Control	Department:					
Sections:		Department:				
For each item please indicate your lev statement by choosing v a score betwee stronger agreement with the statement	een 1 and 5.A					
A.COURESE CONTENT		1	2	3	4	5
1. The teacher covers the entire syllabus						T
2. The teacher discusses topics in detail			1			T
3.The teacher possesses deep knowledge taught $\cdot$	of the subject					
4.The teacher communicate clearly			_			
					Т	t
5.The teacher inspired me by her knowledge	in the subject					ŀ
5.The teacher inspired me by her knowledge B.TEACHING-LEARNING PROCESS	in the subject			-		
B.TEACHING-LEARNING PROCESS 6.The teacher is punctual to the class						
B.TEACHING-LEARNING PROCESS						
B.TEACHING-LEARNING PROCESS 6.The teacher is punctual to the class 7.The engages the class for the full duratior the course in time 8.The teacher comes fully prepared for the cl	n and completes					
B.TEACHING-LEARNING PROCESS 6.The teacher is punctual to the class 7.The engages the class for the full duration the course in time	n and completes					
B.TEACHING-LEARNING PROCESS 6.The teacher is punctual to the class 7.The engages the class for the full duratior the course in time 8.The teacher comes fully prepared for the cl 9.The teacher provides guidance counselling	n and completes lass in academic and					
B.TEACHING-LEARNING PROCESS 6.The teacher is punctual to the class 7.The engages the class for the full duration the course in time 8.The teacher comes fully prepared for the cl 9.The teacher provides guidance counselling non-academic matters infoutside the class 10.The teacher encourages participation an	n and completes lass in academic and and discussion in					

70		+					
na nelpful		4					
C.EVALUATION PROCESS	e						
EVALUATION PROCESS  14.Periodical assessments were conducted as per schedul  15.The teacher uses non-traditional methods of evaluat  1ike Quiz, Seminars, Assignments, Class ro  1ike Quiz, Seminars, Class ro  1ike	ion iom						
<ol> <li>Question paper covers all the topics in the evalua</li> <li>The teacher was fair and unbiased in the evalua</li> </ol>	tion						
process		/Nover					
D.LIBRARY	Regular/Occasionally/Never						
18. How often do you visit the libray  19. Are there required number of title in your		Yes/No					
subject available in the library.  20.Are you satisfied with the cataloguing and		Yes/No					
		Yes/No					
21.are you satisfied with the available recomb	Yes/No						
22.Are the Library Staff co-operative and helpful							
	Yes/No						
en talaful in administrative matters		Yes/No					
		Yes/No					
24.Do you receive the wark of the common available in the department		Yes/No					
I -to elegand property	Yes/No						
	Yes/No Yes/No						
28.Are you happy with eatables/1000 screen		Yes/No					
present canteen 29.Is there a Student Amenity Centre(Canteen)in		Yes/No					
your Campus 30.Do you think that your grievances are Redressed							
when complain/suggestion box is used 31.Do you have the functioning of a placement cell		Yes/No					
in our college 32.Are you using computer in proper working		Yes/No					
conditions  33.Are you have the Scholarships Private/Govt/Etc		Yes/No					