

KATHMANDU UNIVERSITY
End Semester Examination
May/June, 2023

Marks Scored:

Level : B.Pharm.

Year : IV

Exam Roll No. :

Time: 30 mins.

Course : PHAR 419

Semester : II

F. M. : 20

Registration No.:

Date : *June - 08, 23*

SECTION "A"

[20Q. × 1 = 20 marks]

Encircle the most appropriate alternative from each set of choices.

- All of the following statements about acetone polish remover are true EXCEPT
 - Most effective way to remove nail polish.
 - Harsh and very drying to nails, cuticle, and skin.
 - Best for infrequent polish removal and women who use very dark nail polish.
 - Required more effort to rub off the polish.
- All of the following the statements about saliva are true except
 - Buffers maintain the pH slightly acidic and thus prevent the sup of acids produced through bacterial growth.
 - It is produce 1 to 1.5 liters by Salivary glands each day with Ph 4-8.
 - Water is the main constituent (99.4%) and remaining 0.6% are several electrolytes, buffers, glycoproteins, enzymes and antibacterial compounds such as secretory IgA and lysozyme.
 - The enzymes found in saliva are essential in beginning the process of digestion of dietary starches and fats.
- The main purpose of Ethylene Diamine Tetra Acetic Acid in the basic soap formulations is
 - to protect the soap from of any free metal ions
 - to protect the soap from of any alkali free metal ions
 - to protect the soap from of any free non-metal ions
 - to protect the soap from possible oxidation of the fatty constituents
- The soap with..... in its formulation can be claim. as "Soap with cold cream".
 - Mineral oil
 - Jojoba oil
 - Seaweed oil
 - Oatmeal oil
- All of the following statements about UV-A are true EXCEPT
 - Wavelengths: UV-A (320-400 nm)
 - UV -A penetrate deeply into the dermis.
 - UV-A causes redness may result in separation of the stratum corneum by edema and blistering.
 - UV-A is used in tanning salons because of its lack of erythema, and its relatively quick tanning.
- Choice of pigments and dyestuffs for soap formulation include all EXCEPT
 - Be readily dispersible throughout the soap mass to produce an even colour
 - Have good tolerance to a Ph of 7
 - Have good light stability
 - Both organic and inorganic pigments can be incorporated into soap either as fine powders or as paste dispersions

7. All of the following statements about UV-A are true EXCEPT
- Deodorant products may be formulated in much the same way as antiperspirants.
 - Aluminium, aluminium/ zirconium chlorhydrate complexes and Triclosan are incorporated in the deodorant.
 - Deodorant are formulated into aqueous-based, alcohol-based spray and aerosols products.
 - Deodorant with no antimicrobial component, the formulas rely on the ability of the perfume to mask unpleasant body odours.
8. Cream or oil dressing is
- put on the dry hair before combing it into the style.
 - put on the wet hair before it is set into a style.
 - sprayed on to the finished style.
 - put on hair to increase hair diameter by coating the hair shaft
9. All of the following statements about the lipstick and lip gloss are true EXCEPT
- Gloss and transparent coverage are the key properties required and, consequently, the oil to wax ratio is higher and the pigment level is lower.
 - Lip glosses should have a transparent color coverage (sheer) and feel very moist, never dry, on the lips.
 - The pigment range in lip stick is 2 to 10 %. As there is desire for transparency, inorganic pigments are usually used at low levels.
 - Lip gloss manufacture is identical to that of lipsticks, but, if the product is not in stick form, the molding and flaming steps are omitted.
10. The example of dry shampoo is
- Kalolin
 - Triethanolamine alkyl sulphate
 - Sodium lauryl sulphates
 - Ethylene glycol monostearate
11. All of the following statements about hair bleaches are true EXCEPT
- Bleaching agents are the products that give permanent hair lightening without the addition of coloring tint
 - In bleaching the hair, the pigments which give the hair color (melanin) are oxidized to make it colorless.
 - Bleaches are used either to hide gray hair or to change the color of the hair as a fashion.
 - The bleaches mixture contains one part of 0.88 sp. gr. Ammonia to 40 parts of 20 volume hydrogen peroxide.

12. Match the following.

Surfactant	Properties
I. Anionic detergents	a. Very good foaming properties
II. Non-ionic surfactants	b. Generally not as good as anionics and are also expensive.
III. Cationic surfactants	c. Good cleansing activity but do not have sufficient foaming power.
IV. Ampholytics	d. Good foaming and cleansing power but are toxic and causes damage to eye. But at low non-toxic concentration are used in hair

- I-a,II-b,III-c,IV-d
- I-b,II-c,III-d,IV-a
- I-a,II-c,III-d,IV-b
- I-d,II-a,III-b,IV-c

13. All of the following statements about Gingiva are true EXCEPT
- A portion of the gum surrounds and extends onto the enamel of each.
 - Gingiva recession can lead to periodontal disease and/or sensitivity to hot and cold stimuli.
 - The point where the gingiva meets the teeth becomes extremely thin and known as gingival margin.
 - The primary function is to provide the attachment for the fibres of the periodontal ligament and assist the retention of the teeth in the jawbone.

14. Saliva contains many organic substances, a freshly cleaned tooth soon becomes coated with these substances, producing the acquired.....
- Pellicle
 - Plaque
 - Calculus or tartar
 - Dental caries

15. Match the following.

Skin	Reaction to Sun
I.	a. Bruns minimally Always tans well
II.	b. Bruns Easily Tans minimally
III.	c. Rarely burns Tans profusely
IV.	d. Bruns moderately Tans gradually
V.	e. Never burns Deeply pigmented
VI.	f. Bruns Easily Never Tans

- I-f,II-b,III-d,IV-a, V-c,VI-e
 - I-b,II-c,III-d,IV-e, V-f, VI-a
 - I-f,II-b,III-c,IV-d, V-e, VI-a
 - I-d,II-a,III-b,IV-c, V-e, VI-f
16. All of the following statements about mouthwash are true EXCEPT
- Phenol and its derivatives, hexachlorophene, quaternary ammonium compounds, thymol, salicylic acid, formalin, boric acid, tannic acid, hydroxy benzoates etc are used in preparation of mouthwash.
 - Mouthwash is not recommended for children younger than 6 years of age.
 - They may swallow large amounts of the mouthwash, which can trigger adverse events—like nausea, vomiting, and intoxication (due to the alcohol content in some rinses).
 - The main function of mouthwashes is cleansing with deodorants and antiseptics.
17. The production of the first surfactants from.....
- Paraben
 - Polyglycol
 - Polyethene
 - Petroleum
18. All of the following statements about Alopecia areata are true EXCEPT
- May be sudden and result in patchy hair loss.
 - The cause of alopecia areata remains unknown but is thought to be autoimmune.
 - Alopecia androgenetica may be treatable but there are currently no treatments for alopecia areata.
 - hair loss is seen after pregnancy (postpartum alopecia), in chronic renal failure and with certain drugs and chemical agents.

19. is a common skin disorder that makes raised, reddish, often scaly patches. It can pop up as a single patch or several, and can even affect your entire scalp.

- Scalp psoriasis
 - Seborrhoea
 - Folliculitis
 - Dermatitis
20. Soil from dead cellular matter, make-up pigments or, in hard-water areas, precipitated metallic soaps in human skin are classified into
- Oil soluble soil
 - Insoluble soil
 - Water soluble soil
 - Co soluble soil

KATHMANDU UNIVERSITY
End Semester Examination
May/June, 2023

June 06, 2023
Course : PHAR 419
Semester: II
F.M. : 55

Level : B.Pharm.
Year : IV
Time : 2 hrs. 30 mins.

SECTION "B"
[5Q. × 3 = 15 marks]

Attempt *ANY FIVE* questions.

1. What is Demineralization? Explain the factor responsible for it.
2. List out the ingredients used in formulation of lip-balm stick with SPF 15 and explain the formulation procedure of it.
3. List out the ingredients used in formulation of lip stick.
4. Explain the ways to remove hair grease.
5. Draw schematic diagram of teeth with detail label.
6. Differentiate between UV-A and UB-B.
7. Write short notes on (*ANY TWO*):
 - a. Shaving soaps
 - b. Hair Pigments
 - c. Dry Shampoo

SECTION "C"
[5Q. × 5 = 25 marks]

Attempt *ANY FIVE* questions.

8. ABC cosmeceutical is manufacturing toothpaste with a claim that superior quality toothpaste than other companies. Suppose you have been assigned for the inspection of toothpaste quality of ABC cosmeceutical by the government authority. Explain how you will inspect the quality of toothpaste in detail.
9. You are working as formulator in ABC cosmeceutical. You have been delegated for designing shampoo for children. Explain the shampoo formulations you are suggesting in detail along with its ideal characteristic. [2+3]
10. List out ingredients used for preparation of Roll-on antiperspirant. Describe function and purpose of each ingredient. Explain the manufacturing process of it in detail.
11. Use of deodorant soaps and harsh cleaning products, taking long and hot showers can also dry your skin. Living in a cold, dry place dries the skin, too.
 - a. What type of skin product should be used to overcome this problem? [1]
 - b. How the selected skin product overcomes this problem. [2]
 - c. Explain types of ingredients use in formulation of selected skin product. [2]
12. Explain the important features you consider while formulating nail lacquer. Describe the formulation of nail lacquer remover. [3+2]

13. Describe and classify hair loss and disorder. Explain the causes responsible for hair loss. [2.5+2.5]
14. List out ingredients used for preparation of waterproof sunblock creams. Describe function and purpose of each ingredient. Explain the manufacturing process of it in detail. [2+1+2]

SECTION "D"

[2Q. × 7.5 = 15 marks]

Attempt *ANY TWO* questions.

16. Soap in its multitude of different forms would probably be regarded as the most basic material for personal hygiene. Explain basic formulation of toilet soap with variations soap in detail. [3.5+4]
17. Mouthwashes are used for specific purposes, such as antiseptic, deodorizing action etc. in the mouth.
- a. List our ingredients used for preparation of mouthwash. [1.5]
 - b. Describe the function and purpose of each ingredient. [3]
 - c. Explain the necessary tests to perform for assuring effectiveness of mouthwashes. [3]
18. A female customer wants to have a wet, shiny look on her lip with slick finish. She also wants to add luster to make lips appear plumper and smoother.
- a. Which cosmetic product is applied to the lips to give them a shiny appearance? [0.5]
 - b. Explain types of ingredients use in formulation of cosmetic product with its functions and purpose. [3.5]
 - c. Explain the manufacturing process of cosmetic product in detail. [3.5]