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SAFETY AND DISINFECTION

CROSSWORD PUZZLE

| management and transcription of the | |
|-------------------------------------|---|
| 1 | cleaning tools with warm, soapy water and submerging in an EPA-registered disinfectant |
| 2 | used to protect Guests' clothing and skin against chemicals and/or irritation |
| 3 | sets the standards for what information the SDS contains |
| 4 | a disease that is caused by overexposure to certain products or ingredients |
| 5 | mandates that every chemical located within a business has a SDS available |
| 6 | strand tests are to be performed before every chemical service to determine processing time |
| 7 | a form affirming that your Guest was advised of potential risks associated with a chemical service |
| 8 | cleaning tools with warm soapy water to remove all debris and then placing them in a high pressure steam unit |

SAFETY AND DISINFECTION

CROSSWORD PUZZLE

| D | M | X | R | T | D | C | P | P | Q | K | J | G | | |
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COMPOSITION OF THE HAIR

protein building blocks of hair that link together and form tiny protein fibers very strong and create a spiral chain effect spiraling chain of amino acids joined together by peptide bonds **PROTOFIBRILS MICROFIBRILS MACROFIBRILS** Cortical fibers grouped together produce

The dried, dead cells that surround the cortex

BONDS OF THE HAIR

| Like the steps on a ladder, | _ connect |
|---|-----------|
| polypeptide chains side-by-side and are responsible for the hair's strength and elasticity. | |

TYPES OF SIDE BONDS

| ТҮРЕ | STRENGTH | BROKEN BY | REFORMED BY |
|------|----------|-----------|-------------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| * ; | , | | |

PHYSICAL AND CHEMICAL CHANGES TO THE HAIR

Describe what happens to hair when it is temporarily altered:

Describe what happens to hair when it is permanently altered:



STRAIGHT, DRY HAIR; HYDROGEN BONDS ARE INTACT



HAIR IS WET; HYDROGEN BONDS DETATCH



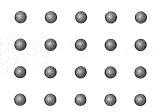
WET HAIR IS STRETCHED AROUND ROLLER



HYDROGEN BONDS RE-ATTACH IN NEW POSITION

MIXTURES IN CHEMISTRY

3 FORMS OF MATTER







Consists of molecules that are very far apart

Consists of molecules that are very close together

Consists of molecules that are the closest together

| I. | ۷. | |
|----------------------------------|---|---------------------------------------|
| Examples: | Examples: | Examples: |
| | | |
| | | |
| A physical combination of 2 or m | ore types of matter blended together is | 8 |
| When one substance is able to be | mixed with another substance to form | n a stable substance, they are called |

Give examples of each type of substance:

| MISCIBLE | IMMISCIBLE |
|----------|------------|
| | |
| | |
| | |
| | |

MEASURES OF pH

| | solution to determine its acidity or alkalinity is called, or abbreviated as | |
|--|--|-------|
| A product is acidic, neutral, or alkaline. | is logarithmically designed to measure | if a |
| Test products that you will be using their corresponding number. | ng in this chapter, and list them on the scale next | to |
| products contract and harden the hair. | 0 1 2 3 | |
| | 5 7 8 | |
| | 10 11 products soften and swetthe hair. | ! |
| | 13 | |

PERMANENT WAVING

| What is Permanent | Waving? | | |
|---|---|--|--|
| | | | |
| THE THREE PHASE | S OF A PERMANENT WA | VE PROCESS: | |
| 1 | requires applying been wrapped. | a permanent waving lo | otion to hair that has |
| 2 | requires the applic process. | cation of a chemical s | olution to stop the waving |
| | | l solution applied to s nds into their new forn | top the waving process and to m. |
| *************************************** | is the complete | e process. | |
| 3 | | | equired processing time and desired curl has been achieved. |
| | - | causes dry, c | |
| - | | causes insuf or inadequat | ficient curl pattern due to timing e saturation. |
| | Waving lotion is applied, disulfide bonds separate. | | Neutralizer reforms disulfide bonds in their new curled position, perm rod is removed. |
| In your own words, e | xplain the processes of re | duction and oxidat | tion: |
| | | MANUTE TO THE OWNER OF THE TOTAL OF THE TOTA | |

PERM CATEGORIES

| PERM TYPE | RECOMMENDED HAIR TYPE | PROCESSING (HEAT / NO HEAT) | ACTIVE INGREDIENT | , pH |
|-----------------------|--|--------------------------------|---|------------|
| (A.K.A COLD WAVES) | | no heat | | |
| | Porous, fragile, color-treated, damaged | | | 4.5 to 7.0 |
| | | | typically Glyceryl Monothioglycolate (GMTG) | |
| | | no heat | Glyceryl Monothioglycolate (GMTG) | |
| ENDOTHERMIC | | | | 4.5 to 7.5 |
| | Coarse, resistant, extremely thick | | Ammonium Thioglycolate | |
| | | no heat | Monoethanolamine (MEA) / Aminomethylpropanol (AMP) | |
| THIO-FREE | | | Mercaptamine / Cysteamine | |
| | · | with heat | | 6.5 to 7.0 |

PERM TOOLS AND TECHNIQUES

CROSSWORD PUZZLE

DOWN

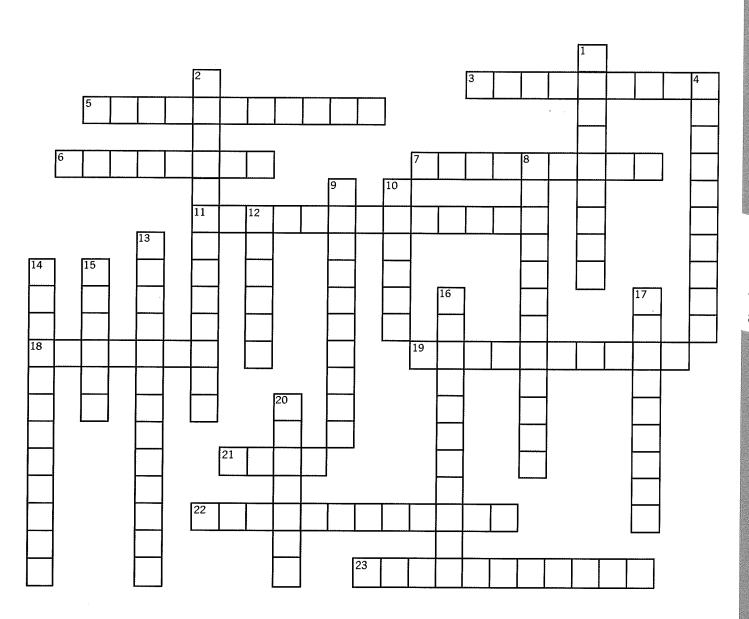
- 1. wrap technique using controlled sections of hair in which perm rods are placed in rectangular sections
 - 2. wrap technique that utilizes two rods, one rod wrapped mid-strand to scalp, one rod wrapped mid-strand to ends
 - 4. wrap technique used on hair longer than 8" to provide a uniform pattern from scalp to ends
 - 8. wrap technique that consists of multiple small ponytails throughout the head, each wrapped with 5 to 7 rods
 - 9. wrap that requires one paper placed on top of remaining exposed hair, ensuring all hair is wrapped smoothly around the rod
 - 10. perm rods that are foam covered and easily bent
- 12. wrap technique that creates a coiling, springing effect on the hair
 - 13. wrap technique that consists of partings that follow the shape of the head
- 14. wrap technique that has no exact sections, rods are staggered
 - 15. perm rods that are pliable foam and create a soft-end result
- 16. wrap technique that produces curls that are tighter on the ends and larger at the scalp
 - 17. wrap technique that consists of controlled sections of hair using zigzag partings
 - 20. wrap that requires only one paper, which is folded in half

ACROSS

- 3. absorbent pieces of thin tissue-type paper that control and protect the hair ends while perming
- 5. wrapping technique that provides curl or wave to small areas of the head
- 6. perm rods that have an even diameter and width throughout their entire length
- 7. used to maintain balance and eliminate pressure by lifting the bands of perm rods off the hair
 - 11. the position of a perm rod within a section
 - 18. perm rods that have a small diameter in the center with a larger diameter increase throughout the remaining length
 - 19. wrap that requires hair to be placed between two end papers
 - 21. perm rods that are long and plastic; wrapped straight, then bent and connected to form a circle
 - 22. subsections located within a larger section
 - 23. position of a tool in relation to its base section and is determined by the angle at which the hair is wrapped

PERM TOOLS AND TECHNIQUES

CROSSWORD PUZZLE



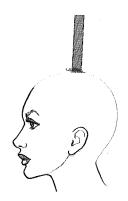
TESTING THE HAIR

When performing chemical services on your Guest's hair, you will need to perform a simple, but necessary test to determine if the hair is healthy or in need of some TLC (tender loving care).

The ability of the hair to absorb any liquid is ______.

Fill in the blanks and describe the three types of porosity.







POROSITY

POROSITY

POROSITY

The capability of the hair strand to stretch and return to its previous form without breaking is

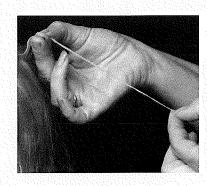
Wet hair can generally be stretched on average ______% of its length.

Dry hair can generally be stretched on average ______% of its length.

Describe each step of an elasticity test:





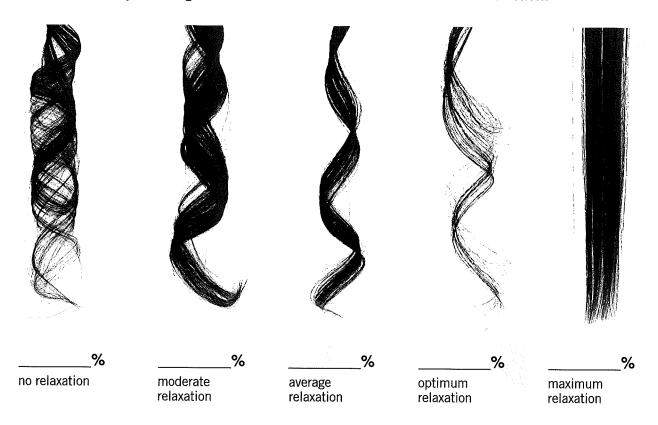


CHEMICAL STRAIGHTENING

What is Chemical Relaxing?

CURL REDUCTION

Determine the percentage of curl relaxation and fill in the blank under each.



TWO PHASES OF A CHEMICAL RELAXING PROCESS:

| 1 | is the application of a chemical agent to the hair, followed by a series of steps necessary to straighten the hair. | | |
|---|---|--|--|
| | is used as a barrier to protect the scalp and is applied prior to a chemical relaxer service. | | |
| 2 | requires applying a chemical that reconnects the disulfide bonds for thio relaxers or restores the pH back to normal when using hydroxide relaxers. | | |
| | chemically restores the disulfide bonds to their newly hardened shape. | | |
| | this process neutralizes any remaning alkaline residue left by a hydroxide relaxer and helps to restore the pH of the hair and scalp. | | |

CHEMICAL RELAXERS

STRENGTHS

typically used on medium textured hair with normal porosity

fine textured hair with severe porosity

best used on color treated,

TYPES

best used on coarse textured hair with resistant porosity

have a high alkaline content; available in varying formulas; strongest relaxer with an alkaline pH above 12

are chemical compounds with the additive ingredient ammonia; process in the same manner as a perm; have a low pH

FORMS

CHEMICAL SMOOTHING

A texture service that restructures overly curly hair into loose curls or waves is ______.

A texture service that helps to eliminate frizz, curl and improve manageability by depositing a strong, fibrous protein is _____







COMMON COMPONENTS OF KERATIN SMOOTHING TREATMENTS

Formaldehyde is:

Formaldehyde Free is:

results from the oxidation of primary alcohols

BEST PRACTICES OF CHEMICAL SMOOTHING:

1.

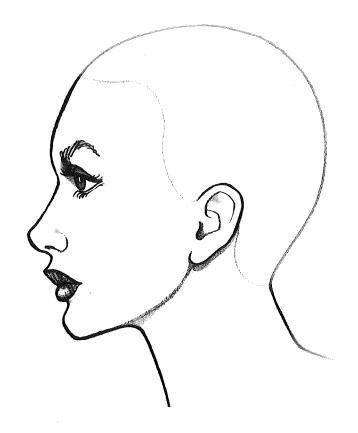
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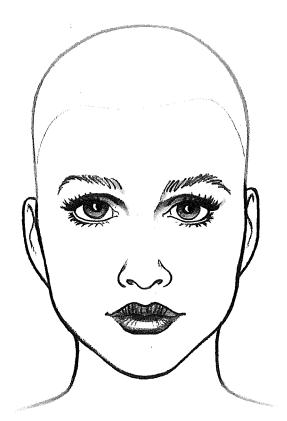
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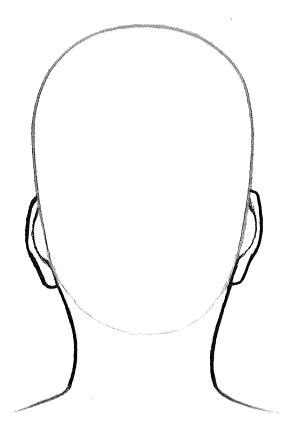
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HEAD DIAGRAM







DEVELOPING YOUR CHEMICAL TEXTURIZING COMMUNICATION AND SOLUTION SKILLS

| What consultation question(s) would you have prepared to ask your Guest for the following: |
|---|
| Permanent Waving: |
| Relaxer: |
| Keratin Smoothing: |
| |
| Your Guest informs you that they would like to completely remove all curl from their hair. What straightening service would you use for the following hair types and why? |
| Fine: |
| Medium: |
| Coarse: |
| Your Guest states that they would like to change their haircolor after having a straightening service. How would you respond and proceed? |
| |
| Your Guest tells you that they experienced some scalp and/or skin irritation after their last service. Given this information, how would you respond and proceed? |
| |

| SERVICE RECOMMENDATIONS |
|--|
| What styling recommendations will you discuss with your Guest for: |
| Permanent Waving: |
| Relaxer: |
| Keratin Smoothing: |
| |
| MAINTENANCE RECOMMENDATIONS |
| When discussing a maintenance routine with your Guest, how often will you suggest they rebook for the following? |
| Permanent Waving: |
| Relaxer: |
| Keratin Smoothing: |
| |
| PRODUCT RECOMMENDATIONS |
| What product recommendations will you discuss with your Guest and why? |
| |
| • |
| Shampoo: |
| Conditioner: |
| |
| Styling: |

Finishing:_

SITUATIONAL SCENARIOS

- 1. Throughout the service, your Guest expressed concerns regarding the condition of their hair after the chemical service. How should you address their concern?
 - a) Chemicals do not cause any damage to the hair, so there is no need for concern
 - b) Suggest various shine products that will camouflage any damage
 - c) To alleviate any damage, suggest reconstructing conditioners to help repair their hair
 - d) Recommend a new haircolor and haircut to draw the attention away from the damaged hair
- 2. During the chemical straightening process, your Guest begins to feel a burning in the nape area. You have just started applying the relaxer and have two additional sections to complete. What action should be taken to assist in reducing the burning?
 - a) Apply a piece of cotton saturated with neutralizer to the sensitive area
 - b) Immediately stop the application and rinse it from the head
 - c) Continue with application and explain they will need to deal with the burning since you are done applying the relaxer
 - d) Wipe the sensitive area and apply additional base cream
- 3. Tonya requests a perm wrap technique that will make her one-length hair have uniform curl from the scalp to the ends. What type of perm wrap technique will you recommend to achieve the final results?
 - a) Croquignole wrap
 - b) Bricklay wrap
 - c) Spiral wrap
 - d) Weave wrap
- 4. After a permanent wave service on your new Guest, you notice that the curl pattern appears weak and limp. What could have been the cause of this problem?
 - a) Under-processing; test curl done incorrectly
 - b) Perm processed too long
 - c) Vigorous shampoo prior to the perm
 - d) Poorly conditioned hair
- **5.** During a scalp and hair analysis for a permanent wave, you notice that your Guest has a severe case of eczema in the nape that appears to be infected, scaly and bleeding. How should you proceed?
 - a) Inform your Guest of the scalp situation and proceed with the service
 - b) Ignore the problem and continue with the service
 - c) Explain to your Guest that you will not be able to proceed with the permanent wave service and recommend they see a medical professional
 - d) Reschedule the perm service in two days and recommend the proper ointment to clear the problem
- **6.** To achieve the best results, what perm should be recommended to a perm Guest who recently began receiving haircolor services?
 - a) Cold wave
 - b) Acid wave
 - c) Ammonium thioglycolate wave
 - d) Ammonia-free wave

- **7.** During a consultation, Kelly reveals that she is having a difficult time maintaining the style of her newly layered 3 inch haircut. Her hair lacks fullness and movement. You recommend a body wave. What color and/or size rods would you use to achieve the desired wave pattern?
 - a) Red
 - b) Blue
 - c) Purple
 - d) Brown
- **8.** When performing your Guest's scalp and hair analysis, you notice hair breakage in the back of their head. As you proceed with the consultation, your Guest states that they have never had a chemical relaxer done professionally in the salon. What are some precautionary measures you should take prior to the chemical relaxer?
 - a) Test a strand of hair every three minutes or as directed by manufacturer
 - b) Do not overlap the relaxer during application
 - c) Choose the correct strength of relaxer based on the texture and porosity
 - d) All of the above
- **9.** Your 2:00 pm appointment is a new Guest scheduled for a soft curl reformation. During the hair and scalp analysis, you notice that 2 inches of her hair has some type of chemical straightening process. When you question your Guest, she explains that her last relaxer was done 6 months ago. How should you proceed to achieve the best results?
 - a) Explain to your Guest that the two chemical processes cannot be combined. To achieve the proper results, the 2 inches of chemically straightened hair will need to be removed before receiving the service
 - b) Explain to your Guest that she will need to grow her hair for another 6 months before even considering the soft curl reformation
 - c) Proceed with the soft curl reformation service and the ends will curl
 - d) Under no circumstances can the service be preformed; explain to the Guest they will never be able to receive the service
- 10. Mrs. Smith, a new Guest, wants her layered hair straight. During the consultation Mrs. Smith reveals that her past relaxers caused scalp irritation. What type of relaxer should be used on Mrs. Smith to assist in avoiding scalp irritation?
 - a) Sodium hydroxide
 - b) Lithium hydroxide
 - c) Potassium hydroxide
 - d) Guanidine hydroxide
- 11. Charlotte requested a straightening service that will help to eliminate the frizz and improve the manageability of her hair. She does not want to commit to the new style for more than 10 to 12 weeks. What procedure would you recommend to Charlotte?
 - a) Sodium hydroxide relaxer
 - b) Ammonium thioglycolate relaxer
 - c) Keratin smoothing treatment
 - d) Japanese thermal straightener
- 12. Felicia, your 5:00 pm permanent wave appointment calls to say she is running late. It is taking her longer to get to the salon from her new house. During the consultation, she states that recently her hair has been slightly drier and stiff.
 - a) Inform your assistant to use a moisturizing shampoo on her
 - b) The new house could have well water, complete a clarifying treatment to remove any mineral deposits on the hair
 - c) Felicia's hair does not feel dry, so just ignore the problem
 - d) Reschedule Felicia's permanent wave appointment and give Felicia a conditioning treatment today, especially since she is late

WORKSHOP Standards

| | MET SKILL |
|---|--------------|
| Safety and Infection Control: | |
| Disinfect work station (before and after each service) Set up work station with required, clean service tools | |
| Consultation: | |
| Scalp Analysis: □oily □normal □dry □abrasions Hair Analysis: □density □texture □elasticity □porosity Drape: neck strip, towel, cape, towel | |
| Shampoo Bowl Safety: | |
| Maintain control of nozzle at all times, with constant temperature check Gently cleanse scalp and hair (if applicable) Disinfect shampoo bowl and water nozzle | |
| Permanent Wave: 9-Block Basic Perm Wrap | |
| Application of perm rods: □on-base □off-base □half off-base Neatly apply protective cream and cotton around hairline and ears | |
| Apply waving lotion to top and bottom of perm rod along full length of rod; then apply lotion to middle of perm rods Remove saturated cotton; replace with new cotton | |
| Apply processing cap; process according to manufacturer's directions Test Curl – check for 'S' shaping | |
| When processing is complete, remove cap and cotton; continue to 'Finishing of Service' | |
| Relaxer: Virgin Application | |
| Apply gloves | |
| Section into 4 quadrants Part hair into ¼" to ½" subsections, applying base to entire scalp (including | |
| hairline and ears) | |
| Starting at most resistant area – part hair into 1/4" subsections | |
| Apply relaxer to most resistant area, staying ½" away from scalp Continue applying relaxer using ¼" subsections, staying 1" away from ends, covering both sides of subsection | |
| Starting at nape area, part hair into 1" subsections Using a tail comb or spine of comb, smooth hair, applying slight firm pressure; continue to smooth all sections | |
| Process according to manufacturer's directions | |
| Perform curl relaxation strand test | |
| Finishing of Service: | 1.07 |
| Rinse hair thoroughly for a minimum of 5 minutes Towel blot, apply pouts living product, process according to manufacture directions | |
| Towel blot; apply neutralizing product; process according to manufacturer's directions Perm: Remove rods without tension; rinse Relaxer: Apply a conditioner, comb through; rinse | |
| Complete style as desired | |
| Recommend at-home maintenance product(s) | |