

Complete the following review of Chapter 15, "Chemical Texture Services," by circling the correct answer to each question.

	1 rods have	a small diameter in the center area and gradually increase
	to their largest diameter at the wider curl at the scalp.	ends, resulting in a tighter curl at hair ends, with a loose,
	a) convex	b) straight
	c) concave	d) colored
	2. A method of wrapping a perma	anent wave that is suitable for very long hair is the
	a) double halo method	b) double tool technique
	c) single halo method	d) straight hook matheral
3	. A is an exa	mple of a physical change that regults from breakly
	re-forming the hydrogen bonds	within the hair.
	a) blow-dry service	b) wet set
	c) hair color service	d) comb-out
4	All perm wraps begin by section subsections called	ing the hair into panels which are further divided at a
	a) panels	b) base sections
	c) base panels	d) base control
5.	Always rinse perm solution from applying the neutralizer.	the hair for at least minutes before
	a) two	b) three
	c) four	d) five
6.	A/anliquid pr	otein conditioner can be applied to the hair and dried
	under a warm dryer for five minute	es or more prior to neutralization if hair is damaged.
	a) alkaline	b) emulsified
	c) neutral	d) acidie
7.	Askto find ou	t why the client wants the texture service and what
	results are expected.	service and what
	a) open-ended questions	b) closed-ended questions
	c) rhetorical questions	d) personal questions

essential review continued

_	Deep control refers to the position	of the tool in relation to its	and is
8.	determined by the angle at which	the hair is wrapped.	
		b) base section	
	a) panel	d) scalp position	
	c) base panel	used to of the hair	when wrapping
9.	End wraps are absorbent papers	le	
	and winding hair on the perm too	b) control the ends	•
	a) decrease the moisture	d) decrease the elasticity	
	c) control the elasticity	of a single strand of hair a	and is classified as
10.		Of a single straine events	
	fine, medium, or coarse.	h) color	
	a) length	b) color	
	c) curl	d) diameter	alizer can react
11.	If the hair is not	, the hydrogen peroxide in the neutr	anzor dan retire
	with waving lotion and cause the		
	a) thoroughly shampooed	b) rinsed properly	
	c) lightly shampooed	d) lightly rinsed	the heir will be
12.	, If too many b	oonds are broken in the perming proce	SS, the hair will be
	too weak to hold a firm curl.		
	a) disulfide	b) hydrogen	
	c) salt	d) polypeptide	
13.	If you support metallic salts are t	present, mix one ounce of 20 volume p	eroxide With
	twenty drops of 28 percent	and immerse at least tv	venty strands for
	thirty minutes.		
	a) bleach	b) hydrogen	
	c) ammonia	d) petroleum	
14	If hair breaks under very slight st	rain, it has:	
	a) excellent elasticity	b) very good elasticity	
	a) average elasticity	d) little or no elasticity	
4 5	: In order to make a smooth trans	sition from the rolled section of the head	d to an unrolled
	coction use a larger tool for the	last tool next to an unrolled section wh	nen giving a
	SECTION, GOO'S TOTAL	2	
•	a) curvature perm	b) partial perm	
;	, ,	d) full perm	
÷	c) spiral perm	-7	

essential review continued

1	6. In neutralization, the	e bonds in the hai	are re-formed	
	a) immediately		b) slowly	'
	c) sporadically		d) randomly	
1	7. In permanent wavin	g, most of the pro	cessing takes place as soc	on as the solution
	penetrates the hair,	within the first	minutes.	
	a) one to two		b) two to three	
	c) three to four		d) five to ten	
18	8. Many male clients a	re looking for adde	ed, style	e. and low maintenance
	that only a perm car	provide.		
	a) color		b) shine	
	c) fullness		d) length	
19	 Metallic salts leave a 	coating on the ha	ir that may cause	, severe
	discoloration, or hair	breakage.		
	a) mild odor		b) uneven curls	
	c) calcification		d) smooth curls	
20	 Neutralization rebuild 	s the	by removing the ext	ra hydrogen bonds
	created by the wavin	g solution.		
	a) salt bonds		b) hydrogen bonds	
	c) disulfide bonds		d) polypeptide chains	
21.	 Perming only a sectic 	n of a whole head	of hair is called	*
	a) section perming		b) spotmatic perming	
	c) partial perming		d) limited perming	
22.	Some manufacturers	recommend the a	pplication of a	after blotting
	and before application	n of the neutralizer		
	a) pre-neutralizing cor		b) pre-neutralizing shamp	000
	c) post-processing mo	oisturizer	d) post-processing shamp	000
23,	The	_ wrap uses zigză	g partings to divide base ar	eas.
	a) curvature perm		b) weave technique	
	c) bricklay perm		d) straight perm	
24.	The	_ wrap creates a m	novement that curves within	sectioned-out panels.
	a) curvature perm		b) bricklay perm	
	c) weave technique		d) straight perm	

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25.	The basic perm wrap is also called a	wrap.
	a) curvature perm	b) bricklay perm
	c) weave technique	d) straight set
26.		breaks the disulfide bonds and softens the hair.
	a) ammonia	b) hydrogen peroxide
	c) waving lotion	d) neutralizer
27.	The chemical composition of hair cons	ists almost entirely of a protein material called
	a) polypeptides	b) keratin
	c) cysteine	d) melanin
28.	• •	steine amino acids, located on neighboring
	polypeptide chains, are:	
	a) salt	b) chemical
	c) hydrogen	d) disulfide
29.	The polypeptide chains of this layer of	hair are connected by end bonds and cross-linked
	by side bonds that form the fibers and	
	a) medulla	b) cuticle
٠	c) cortex	d) follicle
30.	The perm that is activated by heat creat	ated chemically within the product is known
	as	•
	a) endothermic	b) alkaline
	c) exothermic	d) sodium hydroxide
31.	The action of waving lotion is to	
	a) discolor the hair	b) shrink the hair
	c) expand the hair	d) condition the hair
32.	The degree to which hair absorbs the	waving lotion is related to its
	a) texture	b) length
	c) elasticity	d) porosity
33.	The length of time required for the hair	strands to absorb the waving lotion and for the hair
	to re-curl is called	
	a) application time	b) processing time
	c) rinsing time	d) development time

essential review continued

34. The main active ingredient in acid-balanced waving lotions is		nced waving lotions is
	a) glyceryl monothioglycolate	b) ammonium thioglycolate
	c) hydrogen peroxide	d) sodium hydroxide
35.	The main active ingredient or reducing a	agent in alkaline perms is
	a) glycerol monothioglycolate	b) ammonium thioglycolate
	c) hydrogen peroxide	d) sodium hydroxide
36.	The wrap is used to	prevent noticeable splits and to blend the flow of
	the hair.	
	a) curvature perm	b) bricklay perm
	c) spiral perm	d) basic perm
37.	The wrap is done at	an angle that causes the hair to spiral along the
	length of the tool, like the grip on a tenn	is racquet.
	a) spiral	b) croquignole
	c) bricklay	d) barber pole
38.	The hydrogen atoms in the disulfide bor	nds are so strongly attracted to the oxygen in the
	neutralizer that they release their bond v	vith the sulfur atoms and join with the
	<u> </u>	
	a) salt bond	b) nitrogen
	c) hydrogen	d) oxygen
39.	Underprocessing is caused by	processing time of the waving lotion.
	a) excessive	b) increasing
	c) insufficient	d) exact
40.	Waves that process more quickly and pr	oduce firmer curls than true acid waves are
	considered to be	
	a) alkaline	b) acid-balanced
	c) ammonium thioglycolate	d) sodium hydroxide
41.		al processing time needed to achieve optimum
	curl results when giving a perm for the fir	rst time on a client?
	a) patch test	b) strand test
	c) porosity test	d) preliminary test curl
42.	What type of hair is more fragile, easier t	o process, and more susceptible to damage from
	perm services?	
	a) coarse texture	b) medium texture
	c) non-elastic	d) fine texture

essential FeVIEW continued

43.	What type of hair requires more proces	ssing than medium or fine hair and may also be		
	more resistant to processing?			
	a) coarse texture	b) medium texture		
	c) non-elastic	d) fine texture		
44.	When the strand of hair is wrapped at a	an angle 45 degrees beyond perpendicular to its		
	base section, it will result in	·		
	a) half-off base placement	b) off-base placement		
	c) on-base placement	d) on-stem placement		
45.	When one end paper is folded in half or	When one end paper is folded in half over the hair ends like an envelope, it is called		
	the			
	a) double end paper wrap	b) book end wrap		
	c) single end paper wrap	d) top-hand wrap		
46.	When the strand of hair is wrapped at a	an angle 90 degrees (perpendicular) to its base		
	section, it will result in:			
	a) half-off base placement	b) off-base placement		
	c) on-base placement	d) on-stem placement		
47.	When performing a procedure for a preliminary test curl, wrap one tool in each different			
	area of the head including the top, the s	side, and the		
	a) bang	b) temple		
	c) nape	d) occipital		
48.	When hair has assumed the desired shape, the broken disulfide bonds must be			
	rebonded.			
	a) chemically	b) physically		
	c) temporarily	d) semi-permanently		
49.	When you place one end wrap on top of the hair strand and hold it flat, it is called			
	the			
	a) double flat wrap	b) bookend wrap		
	c) single flat wrap	d) top-hand wrap		
50.	A hair relaxing treatment should be avoi	ded when an examination shows the presence		
	of			
	a) scalp abrasions	b) strong curl		
	c) excessive oils	d) pityriasis steadoides		

essential respective continued

5	61. After saturating the rods with neu —————————.	tralizer in a soft curl permanent, the next step is to	
	a) rinse with hot water	b) remove rods carefully	
	c) completely dry hair	d) apply protective base	
5	2. After the hair has been processed	d with a sodium hydroxide relaxer and before the	
	shampoo, the hair should be thor	oughly:	
	a) oiled	b) rinsed	
	c) dried	d) conditioned	
5	3. Before giving a relaxing treatment	to overly curly hair, the cosmetologist must judge its	
	texture, porosity and		
	a) length and elasticity	b) elasticity and silkiness	
	c) elasticity and extent of damage, if any	d) softness and extent of damage, if any	
54	If using a "no base" relaxer, it is red	commended that a protective cream be applied	
	a) at the nape of the neck	b) over the ear lobes	
	c) at the frontal hairline	d) on the hairline and around the ears	
55	Inspecting the action of the relaxer by stretching the strands to see how fast the natural		
	curls are being removed is called _	· · · · · · · · · · · · · · · · · · ·	
	a) periodic patch testing	b) periodic relaxer testing	
	c) periodic strand testing	d) periodic elasticity testing	
56.	. Of the general types of hair relaxers	s, which one does not require pre-shampooing?	
	a) sodium hydroxide	b) sodium thioglycolate	
	c) ammonium thioglycolate		
57.		ng is to avoid the scalp with the	
	comb or fingernails.	the scalp with the	
	a) massaging	b) scratching	
	c) smoothing	d) stimulating	
58.	Relaxers which are ionic compound	s formed by a metal which is combined with oxygen	
	and hydrogen are known as		
	a) guanidine hydroxide relaxers	b) metal hydroxide relaxers	

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59.	Sodium hydroxide relaxers are commoniy	/ called
	a) guanidine hydroxide relaxers	b) low pH relaxers
	c) lithium hydroxide relaxers	d) lye relaxers
60.	The action of a sodium hydroxide relaxe	r causes the hair to
	a) soften and swell	b) soften and shrink
	a) avpand and harden	d) harden and set
61.	The process of breaking the hair's disulfice	de bonds during processing and converting them
	to lanthionine bonds when the relaxer is	rinsed from the hair is known as
	a) lanolination	b) lanthionization
	c) neutralization	d) normalization
62.	The scalp and skin are protected from p	oossible burns when using a hair relaxer by
	applying	
	a) cotton	b) stabilizer
	c) base	d) shampoo
63.	The processing time of a chemical relax	er is affected by
	a) styling products used	A A A A B P A B B B B B B B B B B B B B
	a) the bair's peresity	d) the brand of relaxer
64.	The relaxer cream is applied near the so	calp last because processing is accelerated in this
	area by	
	a) body heat	S/ 3/5/5/100
	c) body perspiration	d) sebaceous glands
65.	. The chemical required to stop the actic	n of the chemical relaxer is
	a) petroleum cream	b) neutralizer
	c) conditioner	d) waving lotion
66	The best type of shampoo to use after	the chemical relaxer is
	a) an organic shampoo	b) an antibacterial shampoo
	c) a neutralizing shampoo	d) a dry shampoo
67	The strength of a relaxer is determined	by the strand test. General guidelines suggest
	that, for coarse virgin hair, the following	g strength is used.
	a) extra mild	b) regular
	c) mild	d) strong or super
	·	

essential continued

68	for fine tinted or lightened being	mined by the strand test. General guidelines suggest that
	for fine, tinted, or lightened hair, a) extra mild	
	c) mild	b) regular
69		d) strong or super
	straight form is called	ranging the basic structure of overly curly hair into a
	a) thermal straightening	b) chemical hair relaxing
	c) permanent waving	d) chemical hair softening
70	•	and a thio permanent wrapped on large tools is called
	a	and a time permanent wrapped on large tools is called
	a) soft curl permanent	b) thioglycolate reconstructer
		d) hard curl permanent
71		ds of hair relaxing are the sodium hydroxide method and
	the method.	5 was are assuming an ontal motified and
	a) thermal	b) thio
	c) ammonia	d) peroxide
72.	To check relaxer processing, smo	oth and press a strand to the scalp using the back of
	the comb or your finger. If curl retu	urns,
	a) rinse immediately	b) add neutralizer
	c) continue processing	d) add conditioner
73.	What is used to restore the hair ar	nd scalp to their normal acidic pH?
	a) cream conditioner	b) medicated shampoo
	c) conditioning filler	d) normalizing lotion
74.	What stops the action of any chen	nical relaxer that may remain in the hair after rinsing?
	a) softener	b) breakdown cream
	c) swelling compound	d) neutralizer
75.	What are the two types of formulas	s for sodium hydroxide chemical hair relaxers?
	a) base and no base	b) lye and no lye
	c) stabilizer and no stabilizer	d) cream and no cream
		must be followed with all chemical hair relaxing
	services?	
	a) shampooing the client's hair	b) pre-conditioning the hair
	c) advising the client regarding	d) wearing protective gloves
	processing time	

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77.	What are the three basic steps used in c	hemical hair relaxing?
	a) wrapping, application, rinsing	b) processing, neutralizing, conditioning
	c) shampooing, application, conditioning	d) processing, neutralizing, stabilizing
78.	When applying sodium hydroxide relaxe	r, the processing cream is applied last to the
	and	
	a) scalp area, middle of hair shaft	b) scalp area, hair ends
	c) middle of hair shaft, hair ends	d) nape area, hair ends
79.	When performing a sodium hydroxide re	touch, where is the product applied first?
	a) to the hair ends	b) to the new growth only
	c) to the middle of the hair shaft	d) to the scalp area only
80.	When using the comb method of applica	ation, how is the relaxing cream applied?
	a) with the back of the comb	b) with the fingers
	c) with the applicator brush	d) with the teeth of the comb
81.	When processing is complete for a soft of	curl permanent, what is done after rinsing the hai
	thoroughly with warm water?	
	a) each curl is blotted with a towel	b) conditioner is applied
	c) client is place under a dryer	d) test curl is taken
82.	When hair has been sufficiently straighte	ned, the hair is rinsed rapidly and thoroughly with
	water.	
	a) hot	b) cold
	c) cool	d) warm

Terms for Perms and Relaxers

1. Acid balanced waves-
2. Alkaline waves-
3. Ammonia free waves-
4. Ammonium thioglycolate-
5. base cream-
6. base control-
7. base direction-
8. base relaxers-
9. base sections-
10. bookend wrap-
11. chemical hair relaxing-

12. chemical texture services-
13. disulfide bonds-
14. endothermic waves-
15. exothermic waves-
16. glyceryl monothioglycolate-
17. hydrogen bonds-
18. hydroxide relaxers-
19. lanthionization-
20. low pH waves-
21. metal hydroxide relaxers-
22. neutralization-
23. normalizing solutions-