

6002-31-032/532 Level 3 Advanced Technical Diploma in Hairdressing (540) – Theory Exam


June 2018

1a	Robert has worked a ten-hour day and has only taken a twenty-minute break. While tidying up at the end of the day Robert slips and breaks his arm.		
	State the Regulation under which the accident should be reported.		
	Acceptable answer(s)	Guidance	Max mks
	Reporting of Injuries, Diseases and Dangerous Occurrence Regulations / RIDDOR		1
1b	State the average number of hours per week a stylist is allowed to work according to the Working Time Directive.		
	Acceptable answer(s)	Guidance	Max mks
	48 hours	Accept Responses which are between: 38h – 48h.	1
1c	Identify four occupational diseases that must be reported.		
	Acceptable answer(s)	Guidance	Max mks
	1 mark for each correct answer, up to 4 marks : <ul style="list-style-type: none"> • Carpal tunnel syndrome • Severe cramp of the hand or forearm • Occupational dermatitis • Hand-arm vibration syndrome • Occupational asthma • Tendonitis or tenosynovitis of the hand or forearm 	Accept any four. *To achieve mark, candidate must state 'Occupational Cancer'.	4

	<ul style="list-style-type: none"> Occupational cancer* Any disease attributed to an occupational exposure to a biological agent 		
2	Describe the sustainable working practices that can be used in a salon.		
	Acceptable answer(s)	Guidance	Max mks
	<p>1 mark for each correct answer, up to 5 marks:</p> <ul style="list-style-type: none"> Recycling (1) – Recycle paper/cardboard/glass/certain plastics (1) Reducing/managing waste (1) – Using refillable bottles (1), use different bins (landfill & recycle waste) (1), avoid mixing too much product (1) buying in bulk (1) Reducing utility usage (1) – Turning off utilities when not needed (1) using disposable towels (1) use energy saving light bulbs (1) naturally dry towels/reduce tumble drying (1) Using eco-friendly products (1) – Using bio-degradable products (1). 	A maximum of 3 marks can be awarded if only identification points are provided.	5
3a	Label the diagram of the skin.		
	Acceptable answer(s)	Guidance	Max mks
	<p>A – Subcutaneous/fat layer B – Sebaceous Gland C – Derma Papilla/Hair bulb</p>		3

3b	Describe four features of the cortex layer of the hair.		
	Acceptable answer(s)	Guidance	Max mks
	<p>1 mark for each correct answer, up to 4 marks:</p> <p>Comprises of elongated fibres (1), called macro, micro & proto fibrils (1), and contains chains of amino acids (1). The cortex is the largest layer of the hair (1), responsible for 80-90% of the hair's weight (1). Pigmentation/melanin is found in the cortex (1) also the temporary salt/hydrogen bonds (1) and the permanent di-sulphide bonds (1).</p>		4
4a	<p>During a consultation for a hair-up style, Casey's client complains of an itchy scalp. Casey makes visual checks and notices that her client has silvery scales around the front hairline and the scalp looks sore with blood spots under the scales.</p> <p>Identify the scalp condition.</p>		
	Acceptable answer(s)	Guidance	Max mks
	Psoriasis		1
4b	Explain what actions Casey should take.		
	Acceptable answer(s)	Guidance	Max mks
	<p>1 mark for each correct answer, up to 3 marks:</p> <ul style="list-style-type: none"> • Advise the client to seek medical advice (1) to get a diagnosis (1) • Advise the use of a coal tar/medicated shampoo (1) to improve the condition (1) • Work carefully around the area (1) to avoid discomfort/make the condition worse (1) • Avoid use of some products that may aggravate the condition (1) • Adjust tension around the affected area (1) if sore to avoid making the condition worse/or causing discomfort (1) • Style the hair (1) to camouflage the scaly area (1) 		3

5	<p>Gerri's client has booked an appointment for her hair to be cut into a bob. During consultation, she identifies that her client has a square face shape.</p> <p>Describe the factors Gerri would need to consider when cutting the bob.</p>		
	Acceptable answer(s)	Guidance	Max mks
	<p>1 mark for each correct answer, up to 3 marks:</p> <ul style="list-style-type: none"> • If the length is above the jawline it will increase the squareness of the jaw / hair length to be below the jawline to hide the square jaw (1) • To add softness around the front hairline (1) to camouflage the strong jaw/oval appearance (1) • Hair length to be below the jawline to hide the square jaw (1) • Add graduation in the back of the hair style to increase height/to elongate the shape of the head (1) • To create a fringe that draws the eye away from the jawline (1). 		3
6	<p>Explain the adaptations required when cutting a short texturised style for a client with a cowlick.</p>		
	Acceptable answer(s)	Guidance	Max mks
	<p>1 mark for each correct answer, up to 3 marks:</p> <p>Leave enough weight in the fringe to keep the cowlick flat (1), or leave the hair longer over the cowlick to compensate for the hair jumping up (1).</p> <p>Reduce the amount of texturising around the cowlick (1) to reduce movement (1).</p> <p>Avoid the use of razors or thinning scissors (1) to maintain weight (1)</p> <p>Use of club cutting/freehand (1) to create a blunt effect at the ends of the hair (1)</p> <p>Utilise the cowlick when personalising the cut (1) for ease of maintenance.</p>		3

7a	<p>Joel's client has type 3 curly hair and asks him to create the style in the image below.</p>  <p>https://www.short-hairstyles.co/amazing-short-hairstyles-for-ladies-with-curly-hair.html</p> <p>State two cutting techniques that will help to increase curl movement.</p>		
	<p>Acceptable answer(s)</p>	<p>Guidance</p>	<p>Max mks</p>
	<p>1 mark for each correct answer, up to 2 marks:</p> <ul style="list-style-type: none"> • Texturizing e.g razor/point cutting (1) • thinning (1) • tapering (1) 	<p>Accept any two of the following.</p>	<p>2</p>
7b	<p>Explain why tension should be considered when cutting this type of hair.</p>		
	<p>Acceptable answer(s)</p>	<p>Guidance</p>	<p>Max mks</p>
	<p>1 mark for each correct answer, up to 5 marks:</p> <ul style="list-style-type: none"> • When pulled down straight to cut (1) the hair is much longer than the desired length (1) and if cut to the desired length (1) the hair when finished will be much shorter than the desired length (1). • When hair is cut wet (1) it can also stretch more than when cut dry (1). • Minimum tension should be used when cutting type 3 curly hair (1) to allow the hair to mould into its natural fall (1) to ensure an even result/appearance (1). • When checking this cut on type 3 curly hair the curls should be encouraged/use no tension (1) to allow the visual shape to be assessed (1). 	<p>Candidate must cover a minimum of three points to achieve full marks.</p>	<p>5</p>

7c	How does the build-up of products impact the cutting service?		
	Acceptable answer(s)	Guidance	Max mks
	<p>1 mark for each correct answer, up to 2 marks:</p> <ul style="list-style-type: none"> • Unable to comb the hair through evenly (1) • Could restrict/inhibit the glide of cutting tools (1) • Discomfort for the client when the comb becomes stuck (1) • Uneven tension so uneven result (hair cut without even tension due to the products being left in the hair then the result will not be even) (1) • Visual checks of the cut are biased by the weight/hold of the product (1). 	Accept any two .	2
8a	What is meant by the term hygroscopic?		
	Acceptable answer(s)	Guidance	Max mks
	The ability to absorb moisture		1
8b	Explain the importance of stretching the hair around the brush when blow-drying type 2 wavy hair.		
	Acceptable answer(s)	Guidance	Max mks
	<p>1 mark for each correct answer, up to 4 marks:</p> <p>Hair when wet is in alpha keratin state (1) and during stretching the hair breaks the hydrogen bonds (1) and the salt bonds (1) that are moulded into a new shape (1) when dried into beta keratin state (1). If hair is not stretched lift/volume will not be achieved (1) and curls will not be formed (1). The durability of the style is longer when the hair has been stretched effectively (1).</p>		4

9a	Describe how the use of rags, to set hair, may cause hair breakage.		
	Acceptable answer(s)	Guidance	Max mks
	1 mark for each correct answer, up to 2 marks : <ul style="list-style-type: none"> • Excessive tension when winding (1) • Securing the rag too tightly (1) • Uneven sectioning/hair pulled from another area on the head (1) • Combing the hair harshly (1). 	Accept any two.	2
9b	Why is it important to consider porosity when using rags?		
	Acceptable answer(s)	Guidance	Max mks
	<ul style="list-style-type: none"> • To calculate the drying time required (1) • To decide if excess moisture needs to be removed (1) 	Accept any of the two responses provided.	1
10	Explain the effects on the hair structure of using a lightener on virgin hair.		
	Acceptable answer(s)	Guidance	Max mks
	1 mark for each correct answer, up to 6 marks : <ul style="list-style-type: none"> • The product is alkaline (1) oxidation takes place (1) so when applied it will open the cuticle scales (1), increasing porosity (1) • It removes natural pigments in the cortex (1) resulting in oxymelanin (1) increasing elasticity (1) • Cool tones/melanin is removed first (1) pheomelanin/red pigments are last to be removed (1) • If the lightener is allowed to over process (1) it may result in hair breakage (1). 		6

11	Describe the principles of the International Colour Chart (ICC) system.		
	Acceptable answer(s)	Guidance	Max mks
	<p>1 mark for each correct answer, up to 4 marks:</p> <ul style="list-style-type: none"> • A universal numbering system (1) to represent depth and tone (1) to aid neutralising unwanted tones (1) • It can be based on numeric/alphanumeric/alphabetic (1) • First number/letter is the base/depth (1) • Second one is the strong/primary tone (1) • Third is the weak/subtle/secondary tone (1) • Sometimes a 0/double letter is added in the third place this is to show it is a stronger base (1). 		4
12a	Charlotte's client has natural base 8, strawberry blonde hair and wants to be a base 6, dark blonde. Describe the distribution of pigmentation in her natural hair.		
	Acceptable answer(s)	Guidance	Max mks
	Small amount of eumelanin/black:brown (1) high proportion of pheomelanin/red:yellow (1).	A maximum of 1 mark can be awarded if candidate does not use technical words/colours to describe pigmentation.	2
12b	How will the client's natural pigmentation affect the colouring service?		
	Acceptable answer(s)	Guidance	Max mks
	<p>1 mark for each correct answer, up to 2 marks:</p> <p>Because the natural colour has strong tones of copper/orange (1) this will need to be neutralised (1) with a blue/ash tone (1) would add a 6/1 (6 base 1 ash) (1).</p>		2

13	Explain the importance of pre-softening before a permanent colouring service.		
	Acceptable answer(s)	Guidance	Max mks
	<p>1 mark for each correct answer, up to 3 marks:</p> <p>Pre-softening is used on white/resistant hair (1), a low strength hydrogen peroxide is applied directly to the white/resistant hair (1) it begins to open the cuticle scales (1) so target shade can enter the hair (1). It is used to given an even colour result on hair that contains white hairs (1).</p>		3
14	<p>Polly's client requires multi-tonal highlights in her base 5 hair. Following consultation, Polly has decided to use a lightener and a high-lift colour with packages.</p> <p>Compare the considerations to be taken into account when applying these products.</p>		
	Acceptable answer(s)	Guidance	Max mks
	<p>1 mark for each correct answer, up to 6 marks:</p> <p>Lightener Apply quickly to get an even result (1) no fixed timing/takes quicker than high lift colour (1)</p> <p>High lift colour Development 35-45 minutes (1) apply before the lightener as this product takes longer to develop (1)</p> <p>Lightener Apply accurately to avoid seepage (1)</p> <p>High lift colour Often a thinner product than lightener (1) and may seep if too much is applied (1)</p> <p>Lightener Avoid overlapping/reapplication as this may deteriorate hair condition/cause breakage (1)</p> <p>High lift colour Overlapping will add tone/give lift (1)</p> <p>Lightener Avoid contact with the scalp when applying high strength peroxide with the lightener (1) to avoid scalp sensitivity/burns (1)</p> <p>High lift colour High strength peroxide generally required to achieve the maximum degree of lift (1) can be used on the scalp (1)</p>	Candidate must show some comparison to achieve full marks.	6

	<p>Lightener May require mixing at different points of application for optimum strength (1) High lift colour Kinder to damaged hair than using lightener (1)</p> <p>Lightener Lifts up to 6 shades (1) High lift colour Lifts 3-4 shades (1)</p> <p>Lightener Does not add tone/may require a toner (1) High lift colour Includes tone (1)</p>		
15	<p>Sophia has long, type 1 straight hair, with an ombré effect that graduates from her natural base 4 at the root area, to a lightened base 10 at the ends. Her hair condition has deteriorated, so she wants to return to her natural colour. She also wants to keep her hair as long as possible.</p> <p>Discuss options for achieving the look taking into account the above factors.</p>		
	Acceptable answer(s)	Guidance	Max mks
	<p>Indicative content may include:</p> <p>Client consultation</p> <ul style="list-style-type: none"> • Visual checks and questioning on the hair and skin condition eg number of times it has been coloured • Service history • Client lifestyle – job • Tests – to check hair condition and suitability and expected results • Client requirements - choice of style and colour • Managing client expectations - final result is difficult to predict, over time the artificial colour on the ends may fade and the hair may look translucent <p>Colour product selection</p> <ul style="list-style-type: none"> • Principles of colour – Pre-pigment the ends first and work up the hair to blend. Pre-pigment with red/copper. • Use of permanent colour products / quasi-permanent/semi-permanent • Choice and strength of hydrogen peroxide <p>Choice of colouring techniques</p> <ul style="list-style-type: none"> • Pre-lightening if target colour is a lot lighter than natural colour • Pre-pigmenting • Block colouring- to add depth and tone to specific areas 	<p>Band 1 (1-4 marks) Basic discussion showing minimal considerations, supported with little or no analysis and conclusion. Tenuous links to client’s requirements and theories were apparent. Made limited reference to techniques and products and provided little or no justifications for selection. The response lacked structure and coherency. Where facts were provided, these were sometimes incorrect.</p> <p>To access higher marks in the band the response will include some attempt of terminology and a satisfactory range of considerations.</p> <p>Band 2 (5-8 marks) Clear and relevant discussion which makes a reasonable attempt to cover some considerations displaying good breadth of understanding. This</p>	12

<ul style="list-style-type: none"> • Application and sectioning technique for long hair • Use of tools and materials <p>Cutting techniques</p> <ul style="list-style-type: none"> • Combination of: • Graduation • Layering • Texturising • Freehand • Club cutting <p>Cutting tools: Scissors</p> <p>Advice and recommendations Home maintenance of colour, style and condition Future services Aftercare products Suggested time interval between services</p>	<p>was supported by some analysis and conclusions that displayed a general depth of understanding. The discussion included some attempt to link client’s requirements and theories but may be fragmented and lack coherency. Some areas of the response may be more detailed than other areas but will include reference to techniques and products. Throughout the discussion recommendations and opinions were offered with some justification and the use of some examples. The overall discussion is presented in a clear format and the use of terminology is mostly appropriate. Content is mainly factually accurate.</p> <p>To access higher marks in the band, the discussion will be mostly detailed and contain some justifications. The overall discussion will be presented clearly and with some logical structure.</p> <p>Band 3 (9-12 marks) Comprehensive and clear discussion showing breadth of understanding across the main considerations which was supported by effective analysis and conclusions that displayed depth of understanding. A well-reasoned discussion with accurate links to the client’s requirements and theories were considered. Good comparisons were made between techniques and products. Throughout the discussion coherent recommendations and opinions were offered with good justifications and clearly defined examples. Relevant use of accurate terminology was evident. Majority of the discussion was relevant and factually accurate.</p> <p>To access higher marks in the band the response will be</p>	
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		balanced and structured in a logical way with conclusions fully justified.	
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