

6004-030 and 530 March 2018

**6004-30 Level 3 Advanced Technical Diploma in Complementary Therapies
(540)**

	Acceptable answer(s)	Guidance	Max marks
1a	<p>One mark for the following:</p> <ul style="list-style-type: none"> The skin. 		1
1b	<p>One mark for the following:</p> <ul style="list-style-type: none"> Back of the hand or back/upper side of the foot. 		1
2	<p>One mark for the identification to a maximum of three marks, one mark for the linked explanation of the affect to a maximum of six:</p> <ul style="list-style-type: none"> A poor diet lacking in essential nutrients (1) can lead to a dry/dull skin/sallow skin (1). A hormonal imbalance (1) can lead to puffy/dry/congested/sensitised/irritated skin (1). Poor health/illness (1) can lead to pale/transparent/puffy/loose/sagging skin (1). Hereditary factors (1) can cause dry/itchy/acneic/wrinkled/pigmented/loose skin (1). Diseases/systemic disorders (1) can lead to transparent/puffy/swelling/dicoloured skin (1). Lack of water/dehydration (1) which leads to dryness of the skin/fine lines (1). Smoking (1) which leads to fine lines/dull skin/thinner skins (1). Alcohol consumption (1) which leads to dehydrated dull complexion/breakouts (1). Medication (1) which will impact on the skin would and vary depending on the medication (1). Natural aging (1) can lead to loss of elasticity/collagen (1) resulting in fine lines and wrinkles (1). Uneven pigmentation (1) which can result in age spots/lentigins (1). 		6

3a	<p>One mark for any of the following:</p> <ul style="list-style-type: none"> • Herpes simplex. • Herpes zoster or shingles. • Warts / verrucae. 		1
3b	<p>One mark for any of the following:</p> <ul style="list-style-type: none"> • Impetigo, conjunctivitis, hordeolum/stye, furuncles/boils, carbuncles, folliculitis, paronychia. 		1
3c	<p>One mark for any of the following:</p> <ul style="list-style-type: none"> • Tinea corporis. • Tinea capitis. • Tinea pedis. 		1
4	<p>One mark for the identification to a maximum of two marks, one mark for each function and linked explanation of the affect to a maximum of four:</p> <ul style="list-style-type: none"> • The three arches create a shape that allows the foot to act like a spring (1) and to act as a shock absorber of forces (1) through the foot during gait (walking, running, jumping) (1). • The three arches provide support (1) to preventing collapse of the foot structure (1). • The three arches help to increase stability/flexibility (1) during movement (1) by acting as a spring during movement (1). 		4
5a	<p>One mark for the following:</p> <ul style="list-style-type: none"> • Adhesive capsulitis. 		1
5b	<p>One mark for the following:</p> <ul style="list-style-type: none"> • Tendonitis/lateral epicondylitis. 		1
6a	<p>One mark for the following:</p> <ul style="list-style-type: none"> • Shoulder. 		1
6b	<p>One mark for the following:</p> <ul style="list-style-type: none"> • Posterior / Upper thigh. 		1

7	<p>One mark for the identification to a maximum of two marks, one mark for any linked explanation of the affect to a maximum of three:</p> <ul style="list-style-type: none"> • Chronic degeneration of the joint cartilage (1) / subchondral (below the cartilage) areas of the joint (1) causing reduced range of movement within the joint/pain (1). • The fibro cartilage becomes worn away (1) which leads to the subchondral plate being exposed (1) and becoming hard/dense/ rough/thickened (1) interfering with joint movement (1). • The joints space becomes narrow (1) which results in reduced space between the bones causing reduced range of movement/pain/crepitus (noise of bone wearing against another bone during movement) (1). • Degeneration/Ineffective healing of bone (1) which leads to enlargement of the joint/the formation of osteophytes/bone spurs forming (1). 		3
8	<p>One mark for each of the following; maximum four marks:</p> <ul style="list-style-type: none"> • Flat. • Irregular. • Short. • Long. • Sesamoid. 		4
9	<p>One mark for the identification to a maximum of three mark, one mark for each function and linked explanation to a maximum of five:</p> <ul style="list-style-type: none"> • Capillaries are composed of a single layer of endothelial cells (1) which allow small substances to diffuse / filtrate through hydrostatic pressure(1) into the tissue fluid (interstitial fluid) (1) • Capillaries are very small in structure (1) which allow the fast and efficient transfer of O₂ .(1) • Capillaries connect the oxygenated blood from the arterioles (1) to the deoxygenated blood in venules (1). 		5
10	<p>One mark for each of the following; maximum three marks:</p> <ul style="list-style-type: none"> • Plasma. • Erthrocytes. • Leucocytes. • Thrombocytes. 	Do not accept red blood cells or white blood cells.	3
11a	<p>One mark for the following:</p> <ul style="list-style-type: none"> • Axillary. 		1

11b	<p>One mark for the following:</p> <ul style="list-style-type: none"> • Popliteal. 		1
11c	<p>One mark for the following:</p> <ul style="list-style-type: none"> • Posterior auricular/parotid. 		1
12	<p>One mark for the identification to a maximum of three marks, one mark for each linked explanation of the effect to a maximum of five:</p> <ul style="list-style-type: none"> • Epinephrine / norepinephrine/ adrenaline is released in the bloodstream by the adrenals (1) and stimulates the sympathetic nervous system to prepare the body to deal with stressful situations/ (flight or fright) (1). • Increased norepinephrine resulting in Increased heart rate and force in the blood vessels (1) which causes blood pressure to rise (1) through the constriction of small arteries/arterioles in skin (1) the circulation is increased and more blood is available to both the heart and lung tissue (1). • Increased norepinephrine resulting in increased muscle capacity and activity in both the heart muscle and tissues of the lungs(1) through the dilation of blood vessels increasing supply of oxygen and nutrients (1) and the removal of waste increasing compactly of the muscles when at work (1). • The lungs are stimulated to respond to the increased energy demands (1) as a result the bronchioles/ airways dilate allowing air flow to increase into the lungs (1) and increased respiratory rate (1) in conjunction with the circulation to increase oxygen and removal of carbon dioxide (1). 		5
13a	<p>One mark for the following:</p> <p>Vertigo.</p>		
13b	<p>One mark for the following:</p> <p>Tinnitus.</p>		
14	<p>One mark for each of the following; maximum three marks:</p> <ul style="list-style-type: none"> • Mouth. • Nose. • Pharynx. • Larynx. 		3

15	<p>One mark for the identification to a maximum of two marks, one mark for any linked explanation of the effect to a maximum of four:</p> <ul style="list-style-type: none"> • Produces hormones (1) which secretes directly into the blood stream (1) to reach their target sites (1). • Works in conjunction with the nervous system (1) to maintain homeostasis (1). • Control effect on body's functions (1) e.g emotion/ appetite/ sexual activity/ metabolism/water balance / control reproductive cycle (1). 		4
16	<p>One mark for each of the following; maximum two marks:</p> <ul style="list-style-type: none"> • Irritable bowel syndrome (IBS) • Constipation. • Diarrhoea. • Flatulence. • Crohn's disease. • Coeliac disease. • Diverticulitis. • Bowel cancer. 		2
17a	<p>One mark for the following:</p> <ul style="list-style-type: none"> • Centre of the head/brain. 		1
17b	<p>One mark for the following:</p> <ul style="list-style-type: none"> • Throat/neck. 		1
18	<p>One mark for the identification to a maximum of two marks, one mark for any linked explanation of the affect to a maximum of three:</p> <ul style="list-style-type: none"> • Regulates bodily fluids (1) to maintain homeostasis (1). • Maintains distribution of intracellular and extra cellular fluid (1) to balance fluid intake with fluid output (1). • Maintains general electrolyte composition and electrolyte balance (1) which monitors the pH values of the body's fluid systems (1). 		3
19a	<p>One mark for the following:</p> <ul style="list-style-type: none"> • Epididymis. 		1
19b	<p>One mark for the following:</p> <ul style="list-style-type: none"> • Urethra. 		1