

Cambridge Technicals Sport

Unit 2C: Physical preparation and readiness for sport and physical activity

Level 2 Cambridge Technical in Sport and Physical Activity **05885 - 05886**

Mark Scheme for January 2023

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This mark scheme is published as an aid to teachers and students, to indicate the requirements of the examination. It shows the basis on which marks were awarded by examiners. It does not indicate the details of the discussions which took place at an examiners' meeting before marking commenced.

All examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes should be read in conjunction with the published question papers and the report on the examination.

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Question	Answer			Marks	Guidance
1	Four marks for four from: (Improved mood/happine muscular and mental ten) (Skin looks healthier) due surface (Blood pressure lowers) cardiovascular system (Sleep) is improved to all (Metabolism is boosted)	sion to increased blood tue to improved ow muscles time	ood flow to the function of the to repair	4	
2	Four marks for:			4	
	Musculoskeletal Effect	Short term	Long term		
	cartilage in joints grows thicker and strengthens the joint		✓		
	lactic acid builds in the working muscles resulting in muscle soreness and fatigue	✓			
	ligaments are able to hold more load as collagen fibres increase		✓		
	muscle fibre tears mean muscle soreness and fatigue	✓			

Question	Answer	Marks	Guidance	
3	 Two marks for two from: Blood flow is directed away from inactive organs (e.g. gut) Blood flow is directed away from inactive muscles Blood flow is redirected to the working muscles Blood flow remains constant to the brain 	2	Accept answer if embedded within an example Accept any relevant answer	
4	 Two marks for: Activity completed without oxygen Utilise glycogen as the fuel to create energy 	2	Accept mark if embedded within an example	
5	 Four marks for four from: improve balance and co-ordination, therefore less likely to fall improves flexibility and mobility, enabling everyday tasks to be completed help maintain a healthy posture, reduces back problems later in life delay the onset/prevent of osteoporosis, reduce the chances of breaking bones delay the onset/prevent of osteoarthritis, reduce the chances of joint pain sustain a healthy lifestyle into old age improves metabolic rate, to control her body weight reduces risk of chronic diseases, eg diabetes, stroke, heart disease improves cardio-vascular health, eg lower blood pressure 	4	Accept answer if embedded within an example Accept any relevant answer	

Q	uesti	on	Answer				Marks	Guida	
6	(a)		Three	marks for:				3	
			the vo	crease in strength clume of blood that ng muscles bank	and size of the car t can be pumped b	rdiac muscle increas by the heart to the	ses		
			Word	blood	brain	carbon dioxide			
				decrease	increase	working muscles			
6	(b)			nark for:				1	

Question	Answer		Guidance	
7*	Indicative content: Warm Up 1. Pulse raising exercise	6	 MB3 – 5-6 marks Answer offers suitable suggestion of suitable warm up with full justification and considers all/most of the factors. Improved flexibility and greater range of movement is clearly explained Quality of written communication show few errors in grammar, punctuation and spelling MB2 – 3-4 marks Answer offers suitable suggestion of warm up with justification but may not take all factors into consideration Explanation of improved flexibility and greater range of movement has been attempted Quality of written communication show occasional errors in grammar, punctuation and spelling MB1 – 1-2 marks Answer offers suggestions of warm up activities but gives little or no justification Answer may not take into consideration all of the factors of how flexibility and range of movement is improved. Quality of written communication show errors in grammar, punctuation and spelling may be noticeable and intrusive 	

Question	Answer	Marks	Guidance	
8	 Three marks for three from: help reduce the effects of depression/anxiety, relieves stress helps relax, aids sense of calmness forget what is causing the problems improves mood/endorphins released increases social circle/build support network improves self-esteem make them feel good about their body/control body weight success from achieving goals/can lead to doing more activity 	3	Accept answer if embedded within an example Accept any relevant answer	
9 (a)	 One mark for the example and one mark for description: (example) give a rules card out before starting a game (description) for people with hearing difficulties, so they understand the rules of the game, for those who do not lip read (example) sitting volleyball (description) adapted for those people who have paralyses of the legs. (example) use a ball with a bell in it (description) for visually impaired people so they can hear where the ball is 	4	One mark for the example and one mark for description Accept any relevant example and description 2 marks maximum for examples alone	
(b)	 Three marks for three from: swimming pools are always warm with moist air, so less chance of bringing an asthma attack on will not need to worry about the cold dry air bringing on an asthma attack in outdoor sports in winter swimming strengthens the respiratory muscles increase number of alveoli, improving efficiency of gaseous exchange increases respiratory volumes e.g. total lung volume reduces the effects of asthma 	3	Accept answer if embedded within an example Accept any relevant answer	

Question	Answer		Guidance	
10	Two marks for: • Head injury/concussion • Any severe acute injury	2	Accept if embedded within an example	
11	Two marks for: Iead to tiredness/fatigue can lead to poor/incorrect technique can lead to poor decision making can lead to poor co-ordination	2	Accept if embedded within an example	

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