Surname	Centre Number	Candidate Number
Other Names		0



GCSE - NEW

3555U10-1



PHYSICAL EDUCATION (Short Course) Unit 1: Introduction to Physical Education

WEDNESDAY, 16 MAY 2018 - MORNING

1 hour

For Examiner's use only					
Question Maximum Mark Mark Awards					
1a	7				
1b	2				
1c	4				
1d	2				
2a	6				
2b	7				
2c	6				
3a	4				
3b	4				
3c	2				
3d	6				
Total					

INSTRUCTIONS TO CANDIDATES

Use black ink or black ball-point pen.

Write your name, centre number and candidate number in the spaces at the top of this page.

Write your answers in the spaces provided in this booklet. If you run out of space, use the continuation pages at the back of the booklet, taking care to number the question(s) correctly.

Diagrams, charts and graphs can be used to support answers when they are appropriate.

INFORMATION FOR CANDIDATES

The number of marks is given in brackets at the end of each question or part-question.

You are reminded of the necessity for good English and orderly presentation in your answers.

Answer all questions.

1. The following is a still photograph of a weightlifter at the end of a successful lift.



(1)	[2]
•	
(ii)	Justify your reasons for choosing the two fitness components in 1(a)(i) above. [2]

he	
[1]	
[1]	

	(iii)	Explain why an unders weightlifters when trainin	tanding of the principle of specificity is importage and competing.	nt for [3]
	••••••			
(b)	(i)	Identify the type of musc bar still above his head a	le contraction taking place when the weightlifter hold the end of the lift.	ds the
		Tick (✓) one box only.		[1]
		ISOMETRIC		
		ECCENTRIC		
		CONCENTRIC		
		ISOKINETIC		
	(ii)	Identify the type of musc	le fibres that have been used to lift the weight.	[1]
		Tick (✓) one box only.		
		VOLUNTARY TWITCH		
		FAST TWITCH		
		SLOW TWITCH		
		CARDIAC TWITCH		

(c) (i) Explain why the weightlifter shown in the image would need to cool down at the end of the competition. [2]



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•••••		
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••••••		••••
(ii)	The One Repetition Maximum Test could be an appropriate test for a weightliften	r.
		[2]
•		
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(d)	Complete the table by naming the types of movement described by the definitions left hand column.	n the [2]	Examine only
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DEFINITION	TYPE OF MOVEMENT	
This movement brings part(s) of the body towards the centre.		
The angles do not change but the joint moves in a circular direction.		

(a)	Evaluate why important.	measuring	your heart	rate before,	during	and after	physical	activity
•••••								
•••••								•••••
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(b)	(i)	Identify two short-term effects that might take place as a result of taking part in a period of intense physical activity. [2]
	•	
	(ii)	Long-term training can result in physiological adaptations.
		Identify two of these adaptations and analyse how these could improve sporting performance. [5]

	•••••	
	•••••	

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(c)	(i)	Complete the table below by inserting the name of the fitness component des	scribed
		by the definition.	[2]

DEFINITION	COMPONENT	
Speed × Strength		
The ability of the muscle to work for a long period without tiring		
performance in a named sporting	two components identified in 2(c)(i) could impactivity.	rove [4]

(a)	Explain how taking part in regular physical activity can help a person's mental and so well-being.
(b)	Explain how the use of modern technology devices, such as activity trackers and mo phone apps, could motivate an individual to take part in regular physical activity.
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(c)	•	The 2016 State of the UK Fitness Industry report indicated that for the first time, gym member numbers had exceeded 9 million 1 in every 7 people in the UK were members of a gym 224 new public and private fitness facilities had been opened in the last 12 months	
		Give two reasons for the increase in gym membership. [2]	
	•		
	•		

Read the following testing data recorded by a 16-year-old male during a 12-week training programme to improve muscular endurance.

Body Part	Exercise	REPS WK1	REPS WK6	REPS WK12
Total Body	Skipping	36	42	47
Upper Body	Press Ups	19	23	28
Upper Body	Bicep Curls	24	28	36
Lower Body	Forward Lunge	13	19	26
Lower Body	Squats	18	22	30

(d)	Using your knowledge of principles of training and methods of training, evaluate why improvements in performance took place over the course of the programme.	/ the [6]
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Examiner only

END OF PAPER

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For continuation only.	Examiner only