



Wednesday 16 May 2018 - Morning

LEVEL 1/2 CAMBRIDGE NATIONAL IN SPORT SCIENCE

R041/01 Reducing the risk of sports injuries

Candidates answer on the Question Paper.

OCR supplied materials:

None

Other materials required:

None

Duration: 1 hour



Candidate forename					Candidate surname					
							0 "			
Centre number			Candidate nu	ımber						

INSTRUCTIONS TO CANDIDATES

- Write your name, centre number and candidate number in the boxes above. Please write clearly and in capital letters.
- Use black ink. HB pencil may be used for graphs and diagrams only.
- Answer all the questions.
- Read each question carefully. Make sure you know what you have to do before starting your answer.
- Write your answer to each question in the space provided. If additional space is required, you should use the lined page(s) at the end of this booklet. The question number(s) must be clearly shown.
- Do **not** write in the barcodes.

INFORMATION FOR CANDIDATES

- The number of marks is given in brackets [] at the end of each question or part question.
- The total number of marks for this paper is 60.
- The quality of your written communication will be assessed in your answer to the question marked with an asterisk (*).
- This document consists of 12 pages. Any blank pages are indicated.

Answer all the questions.

1	Circ	cle your chosen option to indicate which of the following are true or false.	
	(a)	Type 2 diabetes is a medical condition that is insulin-dependent.	
		True / False	[1]
	(b)	Stretching and pulse raising exercises are key components of a cool down.	
		True / False	[1]
	(c)	Acute injuries are the result of a sudden trauma to the body.	
		True / False	[1]
	(d)	Gender and flexibility are individual variables that can influence the risk of injury.	
		True / False	[1]
2		resource 'Asthma and My Child' produced by Asthma UK, some of the common symptom nma which are identified include wheezing and coughing.	ıs of
	Ider	ntify two other symptoms of asthma.	
	1		. [1]
	2		. [1]
3		ugby team employed a sports psychologist to help reduce the number of injuries as a resu yers not being fully focused before each match.	ılt of
		ore a training session the sports psychologist explained the psychological importance of mup.	of a
		er than focus, describe psychological benefits that the sports psychologist could have incluneir talk to the players and how they would reduce chances of injury.	ded
			. [2]

4 One example of an overuse injury is tendonitis.

Draw a line from each of the other types of injury to a suitable example of that injury in the table below.

Types of injury	Example of injury
Overuse	Bruise
(a) Abrasion	Graze
(b) Contusion	Tendonitis
(c) Soft tissue injury	Sprain

5	Insulin dependency is one difference between Type 1 and Type 2 diabetes.
	Describe two other differences between Type 1 and Type 2 diabetes.
	[2]

6 Shin splints is a common sports injury for marathon runners.

Complete the table below to show the type of injury it is, one symptom of it and the recommended treatment.

Type of injury	Symptom	Recommended treatment

[3]

[3]

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(a)	(i)	Which	n one of the sta			
		A	Rest, ice, con injuries	npression and elevation is	s a method used to reha	abilitate soft tissue
B SALTAPS is an on-field assessment that stands for: See, active, passive and strength						ask, look, touch,
		С	Emergency a	ction plans consist of per	sonnel, communication	and equipment
D Fitness levels and wearing the correct protective equipment a factors that can influence the risk of injury						are both intrinsic
						[1
	(ii)	Expla SALT		ce between 'active' and	'passive' for the on-fi	
						[2
(b)	Ind	crease	d thirst	Seizure	Call 999	Cramp
	Gi	ve a su	ıgary drink	Going to the toilet lots	Extreme tiredness	Hypoglycaemia
	En	nergen	cy care plan	Breathing difficulties	Inhaler	Dizziness
(i) Which one of the above could be a possible symptom of asthma, diab concussion?						
	(ii)	Which		ove is the condition that c	·	
(iii) Which one of the above is the best treatment for an asthma						at is not severe?
(c)		scribe eptic fi		coach should deal with	a player who they su	

8	(a)	Name one sport in which performers may wear both a gumshield and protective headgear	
	(b)	Name one item of performance equipment that may cause injury to another performer.	
9	(a)	Using a practical example, describe an acute sporting injury where it would be suitable to u	
		a bandage.	
			[2]
	(b)	Applying a bandage can help ease the pain of an injury.	
		Explain other benefits to the performer of bandaging an injury.	
10	Mas	ssage is one technique a sports therapist may use to treat injuries.	
	(a)	Describe the benefits to a performer of receiving a massage as a response to an injury.	
	(b)	Identify two other techniques a sports therapist may use when responding to a soft tiss injury the day after the injury has occurred.	ue
		1	[1]
			F4 1

11	(a)	Describe lordosis and the impact it can have on a sports performer.
		[2]
	(b)	Other than lordosis, identify two other sports injuries that are associated with poor posture.
		1[1]
		2[1]
	(c)	Explain how a lack of exercise can cause poor posture.
		[2]

12 John is following a sports leader course and for one of the units he must complete a safe warm up

for a group of sports performers.

(a)	-	lain why each of the following characteristics of the group should be considered by John ore starting the warm up.
	(i)	Size of the group
		[2]
	(ii)	Experience of the group
		[2]
(b)		ntify one other specific need that should be taken into consideration before starting a m up.

.....[1]

13 (a) Complete the table below identifying the components and examples of a suitable warm up for a hockey player.

Warm up component	Examples of warm up component		
(i)	Hip circles taking the joint through its full range o movement		
(ii)	Agility runs that change speed and direction		
Skill rehearsal phase	(iii)		

[3]

- **(b)** For each of the following, circle the most appropriate words in **bold** to complete each statement.
 - (i) A warm up increases / decreases heart rate

[1]

- (ii) A cool down increases / decreases / gradually increases / gradually decreases heart rate [1]
- (iii) A cool down slows down / speeds up the removal of lactic acid

[1]

- 14 Which one of the following is **not** an example of a cool down component that physically benefits a 100 m runner?
 - (a) Light running to circulate blood and oxygen
 - **(b)** Static stretches to help the body's transition back to a resting state
 - (c) Sprints to reduce the risk of muscle soreness and stiffness
 - (d) Maintenance stretches to gradually lower body temperature

[1]

15*	Angarika has recently completed a football refereeing course. One of the elements she studied the course was ensuring player safety.						
	Explain what extrinsic factors Angarika needs to be aware of both before and during a football match to reduce the risk of injury to players.						
	[8]						

END OF QUESTION PAPER

ADDITIONAL ANSWER SPACE

If additiona must be cle	I space is required, you should us arly shown in the margin(s).	se the following li	ned page(s). T	he question number(s
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