

Monday 11 January 2021 – Morning

Level 1/2 Cambridge National in Sport Science

R041/01 Reducing the risk of sports injuries

Time allowed: 1 hour

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No extra materials are needed.				
	* R O	4	1	
Please write clearly in black ink. Do not writ	te in the barcodes.			
Centre number	Candidate number			

INSTRUCTIONS

First name(s)

Last name

- Use black ink. You can use an HB pencil, but only for graphs and diagrams.
- Write your answer to each question in the space provided. If you need extra space use the lined pages at the end of this booklet. The question numbers must be clearly shown.
- · Answer all the questions.

INFORMATION

- The total mark for this paper is 60.
- The marks for each question are shown in brackets [].
- Quality of written communication will be assessed in questions marked with an asterisk (*).
- This document has 12 pages.

ADVICE

· Read each question carefully before you start your answer.

Answer **all** the questions.

Circle your chosen option to indicate whether the statement below is true or false.Concussion is a common hazard in boxing

		True		False	[1]
2	tack	ich one of the following injurie de on a hard playing surface? de your chosen option to indicat		likely to suffer after p	performing a slide
	(a)	Blister			
	(b)	Open fracture			
	(c)	Cramp			
	(d)	Abrasion			[1]
3	Hoo	ckey requires the goalkeeper to	wear a helmet.		
	(a)	Describe how a helmet can he	Ip prevent injury to the	goalkeeper.	
	(b)	Describe how a helmet can ca			
		Goalkeeper:			
		Oh			
		Other players:			
					[2]
	(c)	Other than hockey and ice hochelp reduce the risk of injury.	ckey, name another sp	ort that requires a he	lmet to be worn to
					[1]

Due to a busy training schedule and family life, the runner has not eaten enough food before

4 A long distance runner is preparing for their first marathon.

Read the following statements and then:

1

- · identify the individual variable that best fits each statement
- state how each individual variable can influence injury during the marathon.

		the marathon.	
		Individual variable 1:	
		Influence on injury:	
			[2]
	2	The runner manages to get between 7 and 9 hours' rest the night before.	
		Individual variable 2:	
		Influence on injury:	
			[2]
			L-J
5	(a)	Other than a tackle, describe another way a rugby player may suffer from an open fracture) .
			[1]
	(b)	The first aider can see blood and that the player is in a lot of pain.	
	` ,		
		What is the main sign a first aider could identify to confirm it is an open fracture?	
			[1]

6 Fig. 1 below is an image that is going to be used on posters to raise awareness about symptoms and treatment for certain medical conditions.

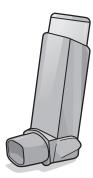


Fig. 1

Name the medical condition that the poster will be used for.	
	[1]
The company designing the poster want to add information about the symptoms of medical condition and have identified coughing as one symptom.	this
Identify three other symptoms to be included on the poster.	
(i)	[1]
(ii)	[1]
(iii)	[1]
Other than using the treatment in the poster and calling 999, describe two other ways medical condition can be treated.	this
1	
2	
A poster for the treatment of dispetes sould contain a picture of what items?	[2]
A poster for the treatment of diabetes could contain a picture of what item?	[4]
	The company designing the poster want to add information about the symptoms of medical condition and have identified coughing as one symptom. Identify three other symptoms to be included on the poster. (i) (ii) Other than using the treatment in the poster and calling 999, describe two other ways

7 (a)) Explain how stretching in a cool down aid	•			
		[2]			
(b) Name a type of stretching that should be				
(c)		considered by a hockey coach before the team			
		[1]			
8 (a) Name one acute injury that a gymnast m	ay suffer from.			
(h	b) Give one example of how the named injury may occur in gymnastics.				
(5		[1]			
9 (a) Complete the table below using the different examples from swimming.	erent warm up components and practical exercises/			
Warm	ı up component	Suitable practical exercise/example			
(i)		Swimming 4 lengths of the pool			
(ii)		Shoulder rotations			
(iii)		Groin walk			
Skill r	ehearsal phase	(iv)			
(b) Describe the main purpose of dynamic m	[4] novement in a warm up.			
-					
		[41]			

10 A football goalkeeper has injured their ankle in a collision with another player.

(a)		ng practical examples, describe four other extrinsic factors that can cause injury to a ball goalkeeper during a game.
	1	
	2	
	S	
	4	
		[4
(b)	SAL inju	TAPS is the on-field assessment routine the physiotherapist can use when treating the ry.
	Ider	ntify the correct component of SALTAPS from the descriptions below:
	(i)	The physiotherapist encourages the goalkeeper to move the injured ankle themselves without any assistance.
		[1
	(ii)	The physiotherapist decides the goalkeeper is fit enough to continue with the game as they are able to put weight on their ankle.
		[1

11	1 Circle your chosen options to indicate whether the statements below are true or false.		
	(a)	You should apply an ice pack to a deep cut to stop blood loss.	
		True False	[1]
	(b)	To minimise blood loss, a cut on the arm should be kept below the level of the heart.	
		True False	[1]
	(c)	Name the best piece of first aid equipment to deal with cuts and prevent infection.	
			[1]
12	Des	scribe the difference between a muscle sprain and strain.	
			[2]

. ,	As part of a basketball player's warm up, they will increase their heart rate which delimore blood and oxygen to the muscles.	ivers
	Describe three other benefits of a warm up, to the muscles.	
	1	
	2	
	3	
		[3]
(b)	The warm up will also allow the basketball player to 'get in the zone' and control their are levels.	
	Describe three other psychological benefits of a warm up.	
	1	
	2	
	3	
		[3]
		more blood and oxygen to the muscles. Describe three other benefits of a warm up, to the muscles. 1

14 Fig. 2 shows a diagram of the spinal column.



Fig. 2

- (a) Draw an arrow on Fig. 2 above to indicate the location and direction of the curve of the spine of someone that has been diagnosed with kyphosis. [1]
- (b) Describe how emotional factors influence poor and good posture.

Poor posture:	
·	
	[2]
	[2]
Good posture:	
Good posture	
	[2]

15*	During their careers, marathon runners and tennis players may experience different types of chronic injuries.
	Explain the different types of chronic injuries they may experience, the symptoms and how R.I.C.E. could be used as a treatment.
	[8]

END OF QUESTION PAPER

11

ADDITIONAL ANSWER SPACE

If additional must be cle	I space is required, you should use the following lined page(s). arly shown in the margin(s).	The question number(s)



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