

Friday 13 January 2017 – Afternoon

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				
Centre numb	er					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** questions.

1	Befo	ore a personal trainer constructs an exercise programme, a risk assessment is required.					
	(a)	Describe how a risk assessment reduces the risk of injury.					
		[2]					
	(b)	Identify three environmental factors that could cause injury to a performer when exercising in a fitness suite.					
		1[1]					
		2[1]					
		3[1]					

2	Before each training session a personal trainer needs to ensure the client completes vario	us
	components of a warm up.	

(a) Complete the following table.

Key components	Example of key component
(i)	Arm swings and hip circles
Dynamic movement	(ii)
(iii)	Skipping and jogging
Strotohing	

[4]

	Dynamic movement	(ii)			
	(iii)	Skipping and jogging			
	Stretching	(iv)			
(b) Another key component for a warm up is the skill rehearsal phase.					
	For a named sport or physical activity, give an warm up.	n example of a suitable skill rehearsal phase of a			
	Named Activity:				
	Example:	[1]			

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3		cribe three characteristics of the client that a personal trainer needs to take into consideration ore they deliver a warm up.
	1	
	2	
	3	
		[3]
4		ing a training session a client is starting to feel breathless and the personal trainer suspects are having an asthma attack.
	(a)	Other than breathing difficulties, identify ${\bf two}$ other symptoms that could determine they are having an asthma attack.
		Symptom 1:
		Symptom 2:[2]
	(b)	The client has left their inhaler in the changing rooms.
		Give two ways the personal trainer could deal with this asthma attack until the inhaler is given to the participant.
		1[1]
		2[1]

5		e of the main roles a steward has during a sporting event is ensuring the health and safety of spectators.							
	A cr	icket steward has just been informed that a spectator is having a suspected epileptic seizure.							
	(a)	Identify three possible symptoms the steward could look for to confirm it is an epileptic seizure.							
		1[
	2								
		3[1]							
	(b)	Other people have made the area safe around the spectator who is having the seizure.							
		What else could the steward do to ensure the safety and recovery of the spectator?							
		[2]							
6	Rea	nd the following statements.							
	(i)	R.I.C.E. stands for rest, ice, compression and elevation							
	(ii)	Acute injuries tend to develop gradually over a period of time							
	(iii)	Personnel, communication and response are the three components of an Emergency Action Plan							
	(iv)	Severs disease and Osgood Schlatter's disease are common adult injuries							
	Whi	ch one of the following is correct? (Circle your chosen option to indicate your answer)							
	(a)	Statements (i) and (ii) are true							
	(b)	All statements are true							
	(c)	None of the statements are true							
	(d)	Statements (ii) and (iv) are false							
		[1]							

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•		ng practical examples, describe how the following factors can prevent injury to performers. Coaching techniques
	(b)	Performers that adhere to rule and regulations
		[2]
		<u></u>
В	Shii	n pads are protective equipment used in various team sports to prevent injury.
	(a)	Other than shin pads, give an example of protective equipment.
		Example[1]
	(b)	Sometimes protective equipment in sport can actually cause injury to the performer.
		Describe how the protective equipment you identified in part (a) could cause injury to the performer.
		[1]
9	Usii legs	ng a specific sporting example, describe one cause and one treatment for muscle cramp in the
	Exa	mple:[1]
	Cau	ıse:[1]
	Trea	atment:[1]

10	(a)	Name a sporting injury where it would be suitable to use a sling.	(41
	(b)	Describe how slings can aid recovery following injury.	.•,
11	A fo	ootball player has gone down injured after a two footed tackle.	, ~]
	(a)	What on-field assessment routine could the team physiotherapist use in response to tinjury?	he
	(b)	The physiotherapist has diagnosed the injury as a sprained ankle.	[1]
	(b)	What type of injury is this?	
	(c)	How could the physiotherapist treat the sprained ankle to reduce the swelling?	1]
			 [1]
12	Pod	or sitting, standing and sleeping positions are causes of poor posture.	
	lder	ntify two other causes of poor posture.	
	1		[1]
	2		[1]

13	(a)	Describe the symptoms of hypoglycaemia.
		[2]
	(b)	Identify two responses to treat hypoglycaemia.
		1[1]
		2[1]
14	(a)	Describe three psychological benefits of a hockey player using a warm up.
		1
		2
		3
		[3]
	(b)	Using a practical example, describe how a hockey player could use mental rehearsal before a competition.
		[1]
	(c)	Using practical examples, explain what environmental factors a hockey coach should consider when planning a cool down.
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15*	Using practical injuries.	l examples,	describe	the causes	, symptoms	and treatmen	t of different	overuse
		•••••						
								[8]
								[o]
			END	OF QUESTI	ON PAPER			

ADDITIONAL ANSWER SPACE

If additiona must be cle	al space is required, you should use the following lined paglearly shown in the margin(s).	ge(s). The question number(s)

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