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General Certificate of Secondary Education 2015

Physical Education



[G9741] FRIDAY 15 MAY, AFTERNOON *G9741*

TIME

1 hour 30 minutes.

INSTRUCTIONS TO CANDIDATES

Write your Centre Number and Candidate Number in the spaces provided at the top of this page.

You must answer the questions in the spaces provided.

Do not write outside the boxed area on each page or on blank pages.

Complete in blue or black ink only. Do not write with a gel pen.

Answer all questions.

INFORMATION FOR CANDIDATES

The total mark for this paper is 100.

Figures in brackets printed down the right-hand side of pages indicate the marks awarded to each question or part question.

Quality of written communication will be assessed in Questions 13, 19 and 21.



1		_
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(a)	Explain what is meant by the term sports facility.	
(b)	Explain how the existence of sporting facilities in an area may influence participation in a sport.	
It is	s said that you can be fit for one sport yet not be fit for another sport.	
Pro	ovide an example from sport that shows you clearly understand this.	
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4	Use two of the terms provid follows.	ed below to help you co	mplete the statement that	
	social health	young people	self esteem	
	physical health	habits	mental fitness	
	character	physical fitness	older people	
		When the term	developing	
5	Name two different and imp of a person. 1			_ [1] _ [1]

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(ii) Explain why the carbon monoxide in tobacco smoke affects aerobic performances. (iii) What does the body have to do to overcome the effect of the carbon monoxide to maintain aerobic performances?	1.	
(ii) What does the body have to do to overcome the effect of the carbon monoxide to maintain aerobic performances?		
(ii) What does the body have to do to overcome the effect of the carbon monoxide to maintain aerobic performances?	(b) (i)	
monoxide to maintain aerobic performances?		
	(ii)	

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7	(a)	Explain how the content of some foods can affect the quality of a person's sleep.	
			[2
	(b)	Explain how the content of some drinks can affect the quality of a person's sleep.	_ [-
			_ [2
8	for	te three differences between life in the 1800s and life today that would accoumany people now having to plan sufficient and appropriate physical activity in r lives, in order to keep their bodies healthy and in good working order.	
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0	(a)	Complete the following sentences.	
		energy is produced without oxygen.	[1
		energy is produced with oxygen.	[1
	(b)	What does muscular power enable a person's muscles to do?	
		Muscular power enables a person's muscles to	
			[
((c)	What determines a person's muscular endurance?	
		A person's muscular endurance is determined by	

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1 (a)	Explain in detail what fartlek training involves.	
		[3
(b)	What is isometric training?	
		[2]
(c)	Name two different training methods used to develop flexibility .	
	1	[1
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12	2 (a)	When is the principle of peaking normally applied in a training programme?	[1]
	(b)	What two changes to training usually happen in the peaking phase? 1	
		2.	
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	14	Explain two positive actions that a person should take to deal with personal sickle and/or injury when training and competing in sport so that no further harm occurs them.	
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15 Study **Table 1** below and answer the questions that follow.

Table 1

Energy Breakdown in Three Foods					
Food A		Food B		Food C	
Carbohydrate	45%	Carbohydrate	75%	Carbohydrate	60%
Fats	35%	Fats	15%	Fats	25%
Protein	20 %	Protein	10%	Protein	15%

(a)	Which of the three foods, A, B or C, is closest to being what is regarded as a
	balanced, healthy food?

I would choose Food	ſ	1

(b) Which food contains the greatest amount of energy (that is kilojoules/kilocalories)? **Explain** your answer.

I would choose Food	This is because	
		[2]

(c) Food labels provide information on carbohydrates, fats and proteins. Name one other piece of information that is often provided on this part of the food label.

This part of the food label also provides informati	ion on
	[

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16 (a) Study **Fig. 1** which shows the performance of an athlete and then answer the question that follows.

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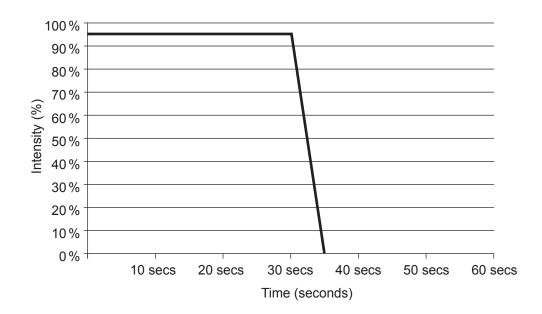


Fig. 1

What does Fig. 1 show about the performance of the athlete?

Fig. 1 shows		
		[2



(b) Study **Fig. 2** which shows the performance of an athlete and then answer the question that follows.

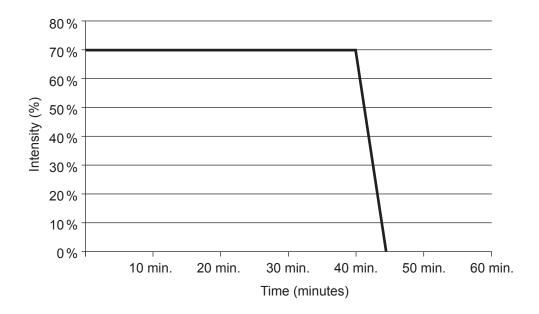


Fig. 2

What does Fig. 2 show about the performance of the athlete?

Fig. 2 shows

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17 Evaluate the choices in each of the five areas shown below.

Use **Table 2** on the opposite page to enter your choices from each of the areas, so that a twenty-year-old male will have an effective **aerobic** interval training workout of no more than 80 minutes, including rest.

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Area 1

Average heart rate for the work periods (beats per minute)						
40	70	100	130	160	190	220

Area 2

Duration (time) of the work periods (seconds)						
10	20	30	40	50	60	70

Area 3

Recovery time between the work periods (seconds)						
0	60	90	120	150	180	210

Area 4

Number of repetitions						
5 10 15 20 25 30 3					35	

Area 5

Number of sets (3 minute rest between sets)						
3	4	5	6	7	8	9



Table 2

Average heart rate for the work periods (beats per minute)	
Duration (time) of the work periods (seconds)	
Recovery time between the work periods (seconds)	
Number of repetitions	
Number of sets (3 minute rest between sets)	

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18 It is good practice to have at least 60 minutes of moderate exercise daily.

Without using a gym or similar sporting facility, outline **four** opportunities for a person to include 60 minutes but no more than 90 minutes of exercise into their day. Mention what exercise the person would do, where they would do the exercise, when they would do it and for how long they would do it.

My recommendations would be:

What exercise?	Where?	When?	How long?
1			
2			
3			
4			
	I	Total number	
		of minutes	

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19 An athlete completed the 20 Metre Shuttle Run Test (Beep Test) twice in order to track the progress being made in developing aerobic fitness. The first test was done before the start of the training programme and the second test was done after completing the training programme.

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Study the information given for the two occasions when the tests were done and then answer the question that follows.

Information	First fitness test	Second fitness test
Venue:	School gym	School grass area
Weather:	Not applicable (indoors)	Cold, but dry
Equipment used:	Cones, CD player with appropriate disc	Cones, CD player with appropriate disc
Set-up:	Cones set at both ends of the gym (20 m apart)	Teacher stepped out 20 m to place the cones
Preparation:	No warm-up	Warm-up completed
Protocol:	Cross line at end of gym with one foot. Push off the wall	Go beyond the cones with both feet before turning
Finish of test:	Finish when you do not make it to the end of the gym before a 'beep'	Finish when you do not make it to the cones on two consecutive beeps
Results:	90 lengths of gym completed	50 laps completed

Evaluate (judge) the reliability of the test results for tracking accurately the development of aerobic fitness. Explain your findings.				



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(a)	Explain the range of exercises that should be included in the circuit.	
		_
(b)	Explain the order in which the exercises should be performed.	
		_
		_ '
(c)	Explain why you would choose a time in seconds for each exercise to be	
	performed rather than a number of repetitions to be done.	
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		,
		[2]
(-)	(variables) could you adjust or change in the circuit so that everyone complete three full circuits in the set time?	
(e)	If you had a set time for the circuit workout, e.g. 30 minutes, what specific thir	
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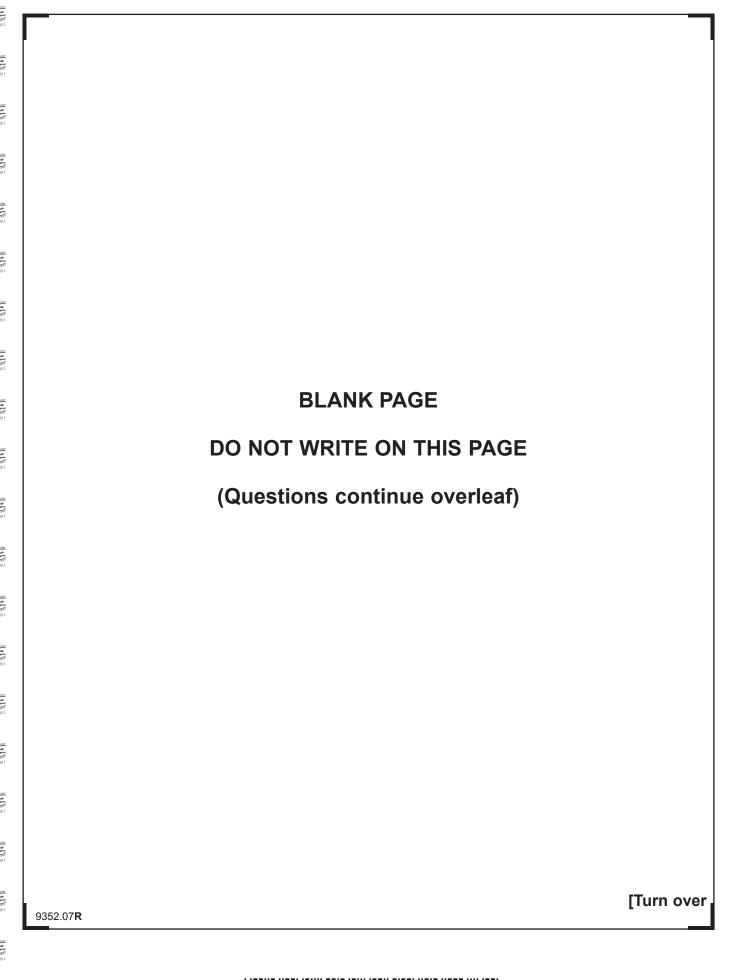
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- 22 Show that you can apply the appropriate principles of training to develop muscular strength.
 - (a) Record your choice of Repetition Maximum (RM) and number of repetitions for each of the five phases of the training programme. Remember, the training programme is to develop muscular strength.

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You must choose **at least three** different Repetition Maximums (RM) over the five phases of the training programme.

Phases of the training programme	Repetition Maximum (RM)	Number of Repetitions	Number of Sets
Weeks 1-3			3
Weeks 4-6			3
Weeks 7–9			3
Weeks 10-12			3
Weeks 13-15			3

(b) Explain how your choice of Repetition Maximums (RMs) will help develop muscular strength over the five phases of the training programme.



(c)	Explain how your choice of the number of repetitions is suitable for the five	
(6)	phases of the training programme.	
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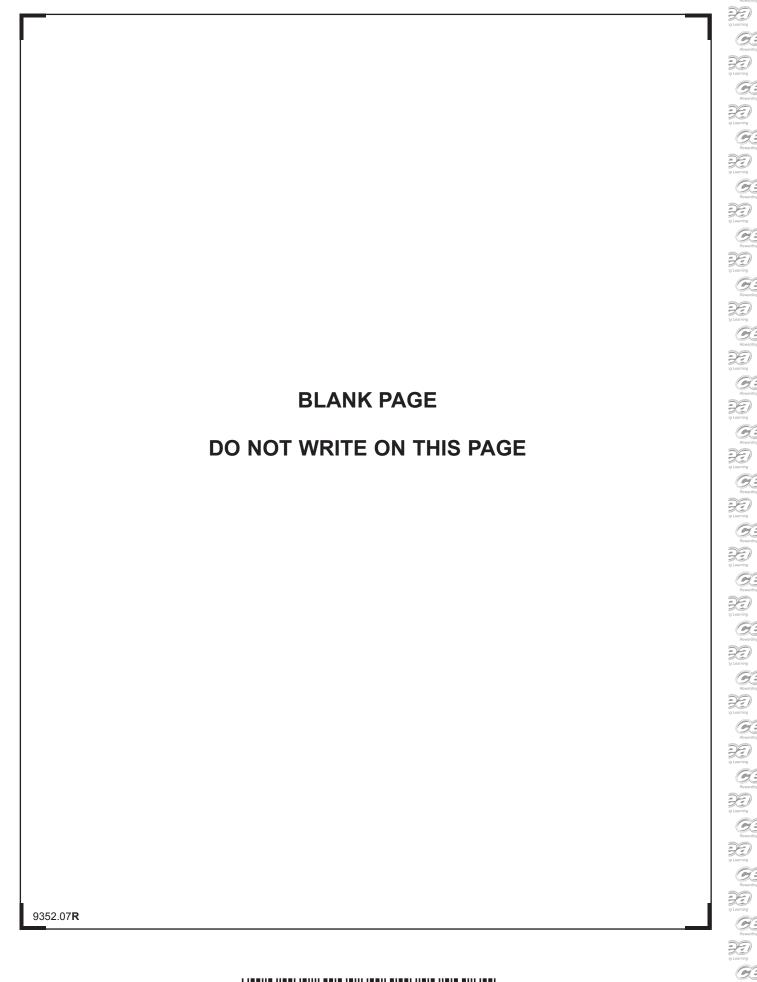
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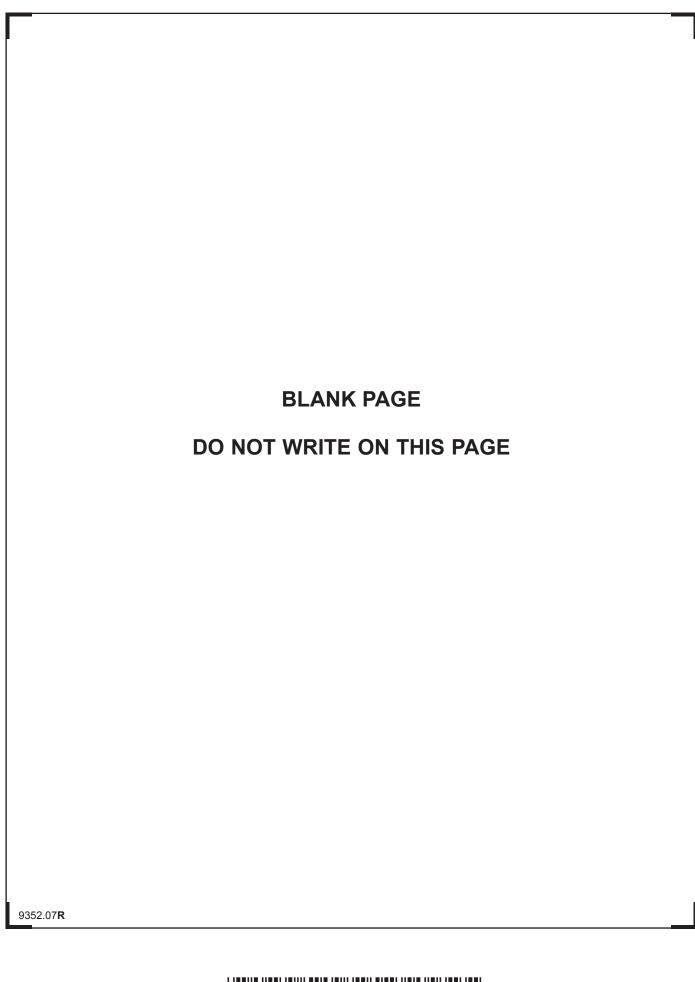
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