Physical Education marking guide and response

Sample external assessment 2020

Combination response (70 marks)

Assessment objectives

This assessment instrument is used to determine student achievement in the following objectives:

- 1. recognise and explain energy, fitness and training concepts and principles about movement
- 4. analyse and synthesise data to devise strategies about energy, fitness and training
- 5. evaluate training strategies about movement
- 6. justify training strategies about movement
- 7. make decisions about and use mode-appropriate features, language and conventions to communicate meaning to inform a technical audience.

Note: Objectives 2 and 3 are not assessed in this instrument.





Introduction

The Queensland Curriculum and Assessment Authority (QCAA) has developed mock external assessments for each General senior syllabus subject to support the introduction of external assessment in Queensland.

An external assessment marking guide (EAMG) has been created specifically for each mock external assessment.

The mock external assessments and their marking guides were:

- developed in close consultation with subject matter experts drawn from schools, subject associations and universities
- aligned to the external assessment conditions and specifications in General senior syllabuses
- developed under secure conditions.

Purpose

This document consists of an EAMG and an annotated response.

The EAMG:

- provides a tool for calibrating external assessment markers to ensure reliability of results
- indicates the correlation, for each question, between mark allocation and qualities at each level of the mark range
- informs schools and students about how marks are matched to qualities in student responses.

Mark allocation

Where a response does not meet any of the descriptors for a question or a criterion, a mark of '0' will be recorded.

Where no response to a question has been made, a mark of 'N' will be recorded.

External assessment marking guide (EAMG)

Multiple choice

Question	Response
1	D
2	А
3	В
4	С
5	В
6	D
7	А
8	С
9	А
10	С

Short response (36 marks)

Question	Sample response	The response	Mark
11a	Resistance training would be a suitable recommendation in this instance as long as certain training principles are met to target the	 identifies resistance training as effective under certain conditions explains 4 of those conditions 	5
	client's needs. The duration of high intensity work would need to be at least 20 seconds to 120 seconds in order to target the lactic acid	 identifies resistance training as effective under certain conditions explains 3 of those conditions 	4
	energy system, and about 80% intensity. In order to target muscular endurance, resistance training should have high reps (about 15 or more) with a lower weight so that you can do repeat sets.	 identifies resistance training as effective under certain conditions explains 2 of those conditions 	3
		 identifies resistance training as effective under certain conditions provides 1 condition 	2
		identifies resistance training as effective	1
		does not match any of the descriptors.	0

Question	Sample response	The response	Mark
11b	b To target the lactic acid energy system and muscular endurance, I would recommend a circuit training session. This will allow for intervals of work and rest at appropriate lengths of time to target the energy system while also incorporating a variety of movements that can target muscular endurance such as lunges, squats, push-ups, sit ups, skipping, etc. each station would be about 1minute in length with 1minute rest before moving on to the next station. Effort during each exercise should be at maximum to target the lactic acid system. Working for 60 seconds, will provide high repetitions of movement for muscular endurance with some resistance depending on the exercise.	 identifies an alternative appropriate training method explains 4 conditions under which that training method would be effective 	6
		 identifies an alternative appropriate training method explains 3 conditions under which that training method would be effective 	5
		 identifies an alternative appropriate training method explains 2 conditions under which that training method would be effective 	4
		 identifies an alternative appropriate training method provides 1 condition under which that training method would be effective 	3
		identifies an appropriate training method	2
		identifies a training method	1
		does not match any of the descriptors.	0

Question	Sample response	The response	Mark
12	 For the performance recorded in the stimulus provided, the athlete has clearly used the lactic acid energy system as their primary energy system, but has also relied quite a bit on the aerobic energy system. The rise and fall in heart rate indicates that the performance consists of a number of repeated intervals of high intensity followed by some rest or active recovery. During these rest periods, the heart rate falls but still stays above the aerobic threshold. The data also indicates some sample work and rest intervals that fall between 40 and 60 seconds. This indicates that the work to rest 	 states the lactic acid system as the primary energy system provides explanation using details of 4 features from the performance data 	10
		 states the lactic acid system as the primary energy system provides explanation using details of 3 features from the performance data identifies 1 other feature of movement 	9
		 states the lactic acid system as the primary energy system provides explanation using details of 3 features from the performance data OR states the lactic acid system as the primary energy system provides explanation using details of 2 features from the performance data identifies 2 other features of movement 	8
ratio is roughly 1:1 and the durations match the typical durations for which the lactic acid energy system provides energy. The length of the rest also allows some time for the lactic acid energy system to partially replenish. The lactic acid system is used by the body for high intensity exercise and the heart rate for some of the work periods in this performance get close to maximum heart rate, indicating a very high intensity of exercise.	 states the lactic acid system as the primary energy system provides explanation using details of 2 features from the performance data identifies 1 other feature of movement 	7	
	 states the lactic acid system as the primary energy system provides explanation using details of 2 features from the performance data OR states the lactic acid system as the primary energy system provides explanation using details of 1 feature from the performance data identifies 2 other features of movement	6	

Question	Sample response	The response	Mark
		 states the lactic acid system as the primary energy system provides explanation using details of 1 feature from the performance data identifies 1 other feature of movement OR states the lactic acid system as the primary energy system identifies 3 features of movement 	5
		 states the lactic acid system as the primary energy system provides explanation using details of 1 features from the performance data OR states the lactic acid system as the primary energy system identifies 2 features of movement 	4
		 states the lactic acid system as the primary energy system identifies 1 feature of movement 	3
		 identifies the aerobic energy system as a contributing energy system refers to 10 mins of total movement in the performance data 	2
		identifies an energy system	1
		does not match any of the descriptors.	0

Question	Sample response	The response	Mark
13	The training program provided does not provide opportunities for the athlete to taper in the lead-up to the competition. Tapering allows	 recommends tapering by removing 1 session from microcycle 12 2 sessions from microcycle 13 	7
	an athlete to reduce the frequency of training prior to championships to recover from the effects of training and be in optimal condition	 recommends tapering by removing 2 sessions from microcycle 12 3 sessions from microcycle 13 	6
	at the competition event. The event is in week 14 and lasts for 4 days. I would recommend removing one of the continuous sessions in week 12 so that the athlete trains 4 times	 recommends tapering by removing 1 session from microcycle 12 1 session from microcycle 13 	5
	and then in week 13, remove the interval session and one of the continuous sessions in order to reduce the number of sessions to 3.	 recommends tapering by removing 1 session from microcycle 12 OR recommends tapering by removing 1 session from microcycle 13 	4
		 recommends tapering by reducing intensity of sessions in microcycle 12 intensity of sessions in microcycle 13 	3
		 recommends tapering by reducing intensity of sessions in microcycle 12 OR recommends tapering by reducing intensity of sessions in microcycle 13 	2
		recommends tapering	1
		does not match any of the descriptors.	0

Question	Sample response	The response	Mark
13 cont.	13 cont. By training 4 times in week 12 and then only 3 times in week 13, the athlete will be able to recover better from the effects of high frequency training but still maintain fitness levels with similar intensity in the lead up to the competition. This will allow the athlete to be less fatigued from training in weeks 12	 supports tapering by referring to recovery to achieve outcomes a), b) and c) 	8
		 supports tapering by referring to recovery to achieve outcome a) and b) OR supports tapering by referring to recovery to achieve outcome a) and c) 	7
	and 13 to ensure optimal performance at the championships in week 14. I would still ensure the	 supports tapering by referring to recovery to achieve outcomes b) and c) 	6
	athlete completes the skills sessions and the pre-championship event as these will be very specific	 supports tapering by referring to recovery to achieve 1 of outcomes a), b) or c) 	5
	to their performance.	 supports tapering by referring to recovery improved competition performance 	4
		 supports tapering by referring to recovery OR supports tapering by referring to improved competition performance 	3
		 describes the concept of tapering the concept of recovery 	2
		 describes the concept of tapering OR describes the concept of recovery 	1
		does not match any of the descriptors.	0

Extended response: Question 14 (24 marks)

The response	Mark
 identifies a session as least effective at meeting the 2 requirements identifies specific movement/s related to a position/event in a selected physical activity 	6
 identifies a session as least effective at meeting the 2 requirements identifies a position/event in a selected physical activity	5
 identifies a session as least effective at meeting the 2 requirements states a selected physical activity	4
 identifies a session as least effective at meeting the 2 requirements OR identifies specific movement/s related to a position/event in a selected physical activity OR identifies a session as least effective at meeting 1 of the requirements states a selected physical activity	3
 identifies a session as least effective at meeting 1 of the requirements OR identifies a position/event in a selected physical activity OR 	2

The response	Mark
 identifies a session as least effective states a selected physical activity 	
identifies a session as least effective OR	1
 states a selected physical activity 	
does not match any of the descriptors.	0

The response	Mark
 identifies energy system information for specific movements in a position/event for a selected physical activity provides 2 conclusions about training principles from the stimulus explains a link between an energy system used in the selected physical activity with duration and intensity information in the least effective session 	4
 identifies energy system information for specific movements in a position/event for a selected physical activity provides 1 conclusion about training principles from the stimulus explains a link between an energy system used in the selected physical activity with duration or intensity information in the least effective session	3
 identifies energy system information for a position/event for a selected physical activity related to 1 training principle from the stimulus 	2
makes a statement about energy systems in the context of a physical activity	1
does not match any of the descriptors.	0

The response	Mark
 identifies a fitness component requirement of specific movements in a position/event for a selected physical activity describes a limitation of specific movements in the least effective session and links it to that fitness component requirement 	4
 identifies a fitness component requirement of specific movements in a position/event for a selected physical activity 	3
 describes a limitation of the least effective session and links it to that fitness component requirement OR 	
 identifies a fitness component requirement for a selected physical activity describes a limitation of specific movements in the least effective session and links it to that fitness component requirement 	
 identifies a fitness component requirement for a selected physical activity describes a limitation of the least effective session and links it to that fitness component requirement 	2
identifies a fitness component requirement for a selected physical activity OR	1
describes a limitation of the least effective session and links it to that fitness component requirement	
does not match any of the descriptors.	0

The response	Mark
 provides a modification to meet energy system requirements using supporting features a), b) and c) explains how a modification meets a fitness component requirement for specific movements of a position/event for a selected physical activity 	7
 provides a modification to meet energy system requirements using supporting features a), b) and c) explains how a modification meets a fitness component requirement for a selected physical activity OR provides a modification to meet energy system requirements using supporting features a) and b) explains how a modification meets a fitness component requirement for specific movements of a position/event for a selected physical activity 	6
 provides a modification to meet energy system requirements using supporting features a) and c) explains how a modification meets a fitness component requirement for specific movements of a position/event for a selected physical activity 	
 provides a modification to meet energy system requirements using supporting features a), b) and c) explains how that modification is related to a fitness component OR 	5
 provides a modification to meet energy system requirements using supporting features a) and b) explains how a modification meets a fitness component requirement for a selected physical activity OR 	
 provides a modification to meet energy system requirements using supporting features a) and c) explains how a modification meets a fitness component requirement for a selected physical activity OR 	
 provides a modification to meet energy system requirements using a), b) or c) explains how a modification meets a fitness component requirement for specific movements of a position/event for a selected physical activity 	

The response	Mark
 provides a modification to meet energy system requirements using supporting features a), b) and c) 	4
OR	
 provides a modification to meet energy system requirements using supporting features a) and b) explains how that modification is related to a fitness component OR 	
 provides a modification to meet energy system requirements using supporting features a) and c) explains how that modification is related to a fitness component OR 	
 provides a modification to meet energy system requirements using a), b) or c) explains how a modification meets a fitness component requirement for a selected physical activity 	
 provides a modification to meet energy system requirements using a), b) or c) OR 	3
 explains how a modification meets a fitness component requirement for specific movements of a position/event for a selected physical activity 	
OR	
 provides a modification related to energy systems explains how a modification meets a fitness component requirement for a selected physical activity 	
provides a modification related to energy system/s and a fitness component	2
provides a modification related to energy system/s or a fitness component	1
does not match any of the descriptors.	0

The response	Mark
demonstrates accurate use of written features and language	3
 demonstrates appropriate use of written features and language 	2
 demonstrates variable use of written features and language 	1
does not match any of the descriptors.	0

Extended response: Question 15 (24 marks)

The response	Mark
 identifies a movement strategy for a position/event in the selected physical activity explains 3 features of the fitness test in relation to that movement strategy 	6
 identifies a position/event in the selected physical activity explains 3 features of the fitness test in relation to that position/event OR identifies a movement strategy for a position/event in the selected physical activity explains 2 features of the fitness test in relation to that movement strategy 	5
 identifies a movement strategy for a position/event in the selected physical activity explains 1 feature of the fitness test in relation to that movement strategy	4
 identifies a position/event in the selected physical activity explains 1 feature of the fitness test in relation to that position/event	3

The response	Mark
 identifies a position/event in the selected physical activity 	2
OR	
 states a physical activity 	
 explains 1 feature of the fitness test in relation to that physical activity 	
OR	
explains 2 features of the fitness test	
 states a physical activity 	1
OR	
 explains 1 feature of the fitness test in relation to that physical activity 	
does not match any of the descriptors.	0

The response	Mark
 identifies energy system information for the movement strategy for a position/event in the physical activity describes duration and intensity of work/rest in the fitness test provided provides a link between an energy system used in the selected physical activity and limitations of duration and intensity in the fitness test provided 	4
 identifies energy system information for the movement strategy for a position/event in the physical activity describes duration or intensity of work/rest in the fitness test provided provides a link between an energy system used in the selected physical activity and limitations of duration or intensity in the fitness test provided 	3
 identifies energy system information for the movement strategy for a position/event in the physical activity describes duration or intensity of work/rest in the fitness test provided 	2
 identifies energy system information for the movement strategy for a position/event in the physical activity OR describes duration or intensity of work/rest in the fitness test provided 	1
does not match any of the descriptors.	0

The response	Mark
 identifies a fitness component requirement from a movement strategy for a position/event in the selected physical activity describes a limitation of specific movements in the fitness test provided and links it to a fitness component used in the movement strategy for the selected physical activity 	4
 identifies a fitness component requirement from a movement strategy for a position/event in the selected physical activity describes a limitation in the fitness test provided and links it to a fitness component used in the movement strategy for the selected physical activity 	3
 identifies a fitness component requirement from a movement strategy for a position/event in the selected physical activity identifies a limitation in the fitness test provided 	2
 identifies a fitness component requirement from a movement strategy for a position/event in the selected physical activity OR identifies a limitation in the fitness test provided 	1
does not match any of the descriptors.	0

The response	Mark
 provides a modification to meet energy system requirements using supporting features a), b) and c) 	7
explains how a modification meets a fitness component requirement for specific movements of a position/event for a selected physical activity	
 provides a modification to meet energy system requirements using supporting features a), b) and c) 	6
 explains how a modification meets a fitness component requirement for a selected physical activity OR 	
 provides a modification to meet energy system requirements using supporting features a) and b) 	
 explains how a modification meets a fitness component requirement for specific movements of a position/event for a selected physical activity 	
OR	
 provides a modification to meet energy system requirements using supporting features a) and c) 	
 explains how a modification meets a fitness component requirement for specific movements of a position/event for a selected physical activity 	
 provides a modification to meet energy system requirements using supporting features a), b) and c) 	5
 explains how that modification is related to a fitness component 	
OR	
 provides a modification to meet energy system requirements using supporting features a) and b) 	
 explains how a modification meets a fitness component requirement for a selected physical activity OR 	
 provides a modification to meet energy system requirements using supporting features a) and c) 	
 explains how a modification meets a fitness component requirement for a selected physical activity OR 	
 provides a modification to meet energy system requirements using a), b) or c) 	
 explains how a modification meets a fitness component requirement for specific movements of a position/event for a selected physical activity 	

The response	Mark
 provides a modification to meet energy system requirements using supporting features a), b) and c) 	4
OR	
 provides a modification to meet energy system requirements using supporting features a) and b) explains how that modification is related to a fitness component 	
OR	
 provides a modification to meet energy system requirements using supporting features a) and c) 	
 explains how that modification is related to a fitness component 	
OR	
 provides a modification to meet energy system requirements using a), b) or c) 	
 explains how a modification meets a fitness component requirement for a selected physical activity 	
 provides a modification to meet energy system requirements using a), b) or c) 	3
OR	
 explains how a modification meets a fitness component requirement for specific movements of a position/event for a selected physical activity 	
OR	
 provides a modification related to energy systems 	
explains how a modification meets a fitness component requirement for a selected physical activity	
 provides a modification related to energy system/s and a fitness component 	2
provides a modification related to energy system/s or a fitness component	1
does not match any of the descriptors.	0

The response	Mark
demonstrates accurate use of written features and language	3
demonstrates appropriate use of written features and language	2
demonstrates variable use of written features and language	1
does not match any of the descriptors.	0