

Physical Education
Advanced
COMPONENT 1: Scientific Principles of Physical Education

Wednesday 24 May 2023 – Afternoon

Diagram Booklet

In the boxes below, write your name, centre number and candidate number.

Surname					
Other names					
Centre Number					
Candidate Number					

INSTRUCTIONS

There may be spare copies of some diagrams in case you need them.

THIS DIAGRAM BOOKLET *MUST* BE RETURNED WITH THE QUESTION PAPER AT THE END OF THE EXAMINATION.

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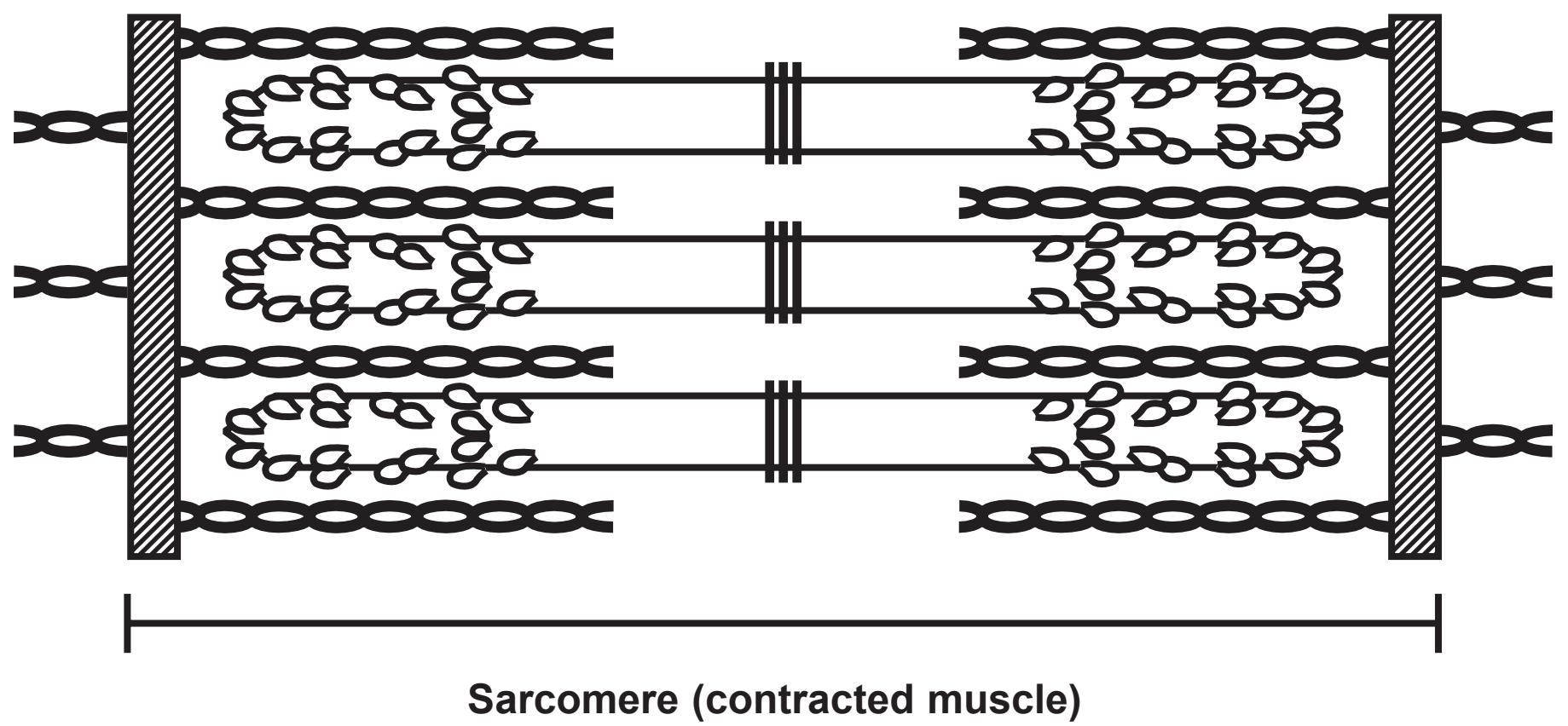
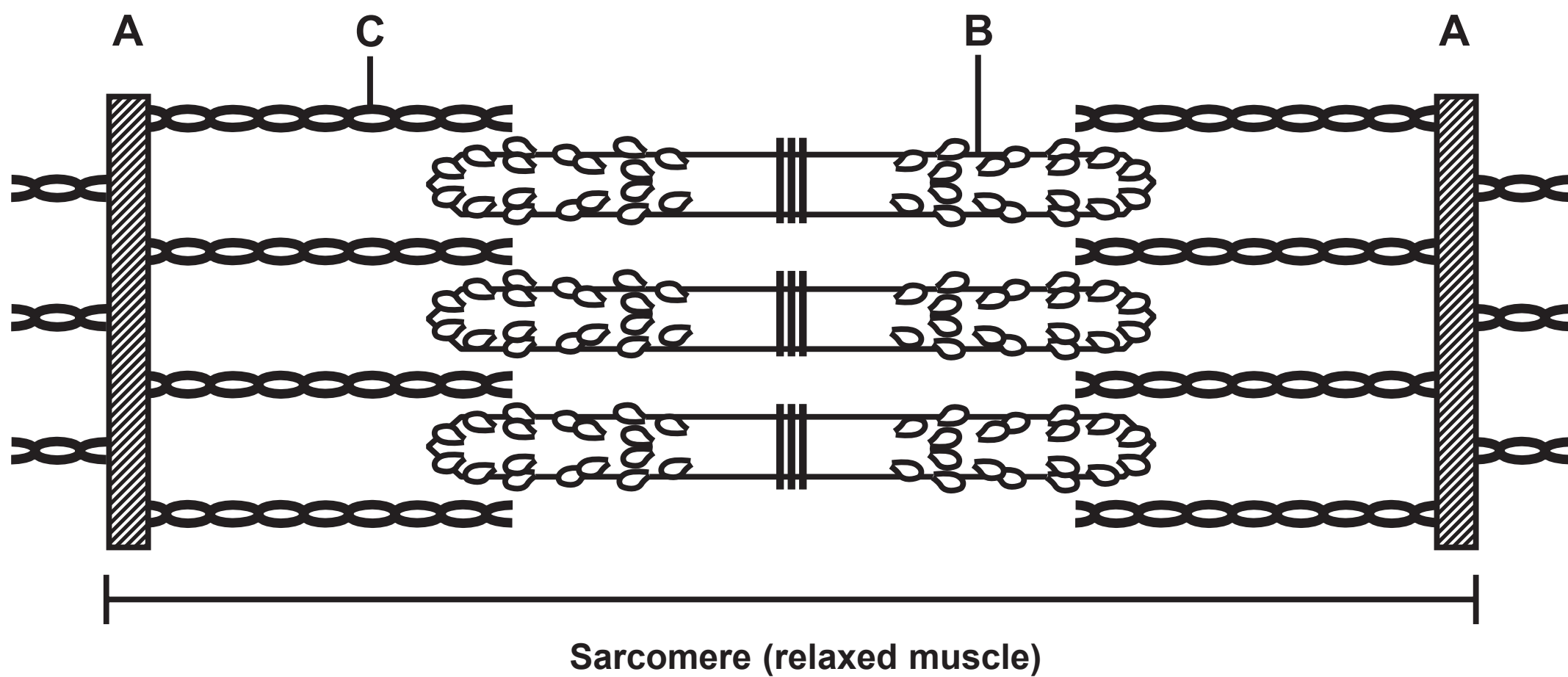
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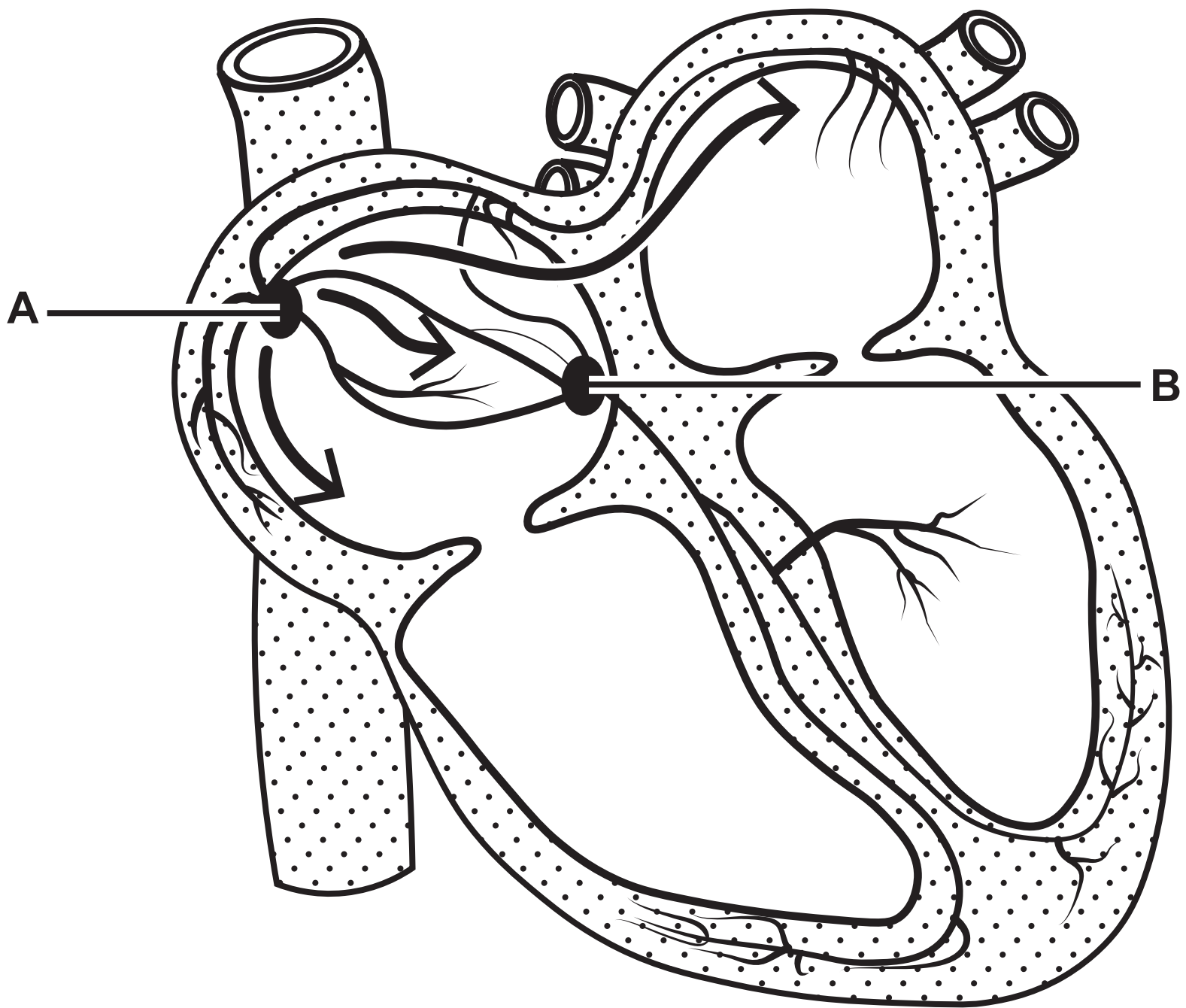
Question 7

FIGURE 1



Question 11

FIGURE 2



Question 15

TABLE 1

Test	Result	Rating
Cooper 12 Minute Run	2350 metres	Average
Margaria Kalamen Test	1,563 watts	Average
20 m Acceleration Sprint	4·1 seconds	Above average
Yo Yo Intermittent Recovery Test	16·3	Average

Question 19

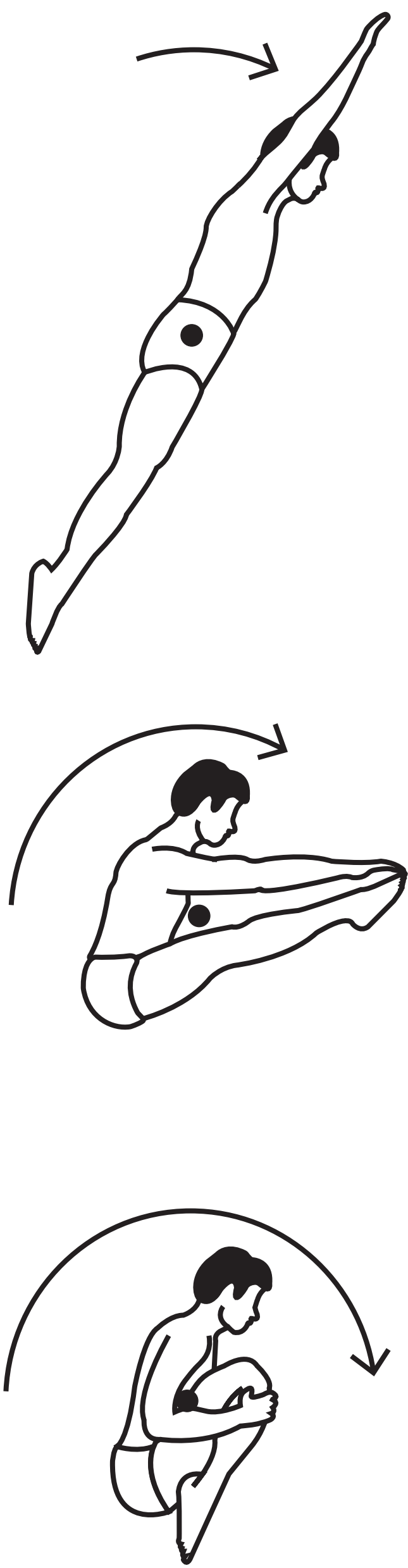
TABLE 2

Distance (–metres)	Time taken (seconds)	Speed (ms ^{–1})
100	12·1	8·3
200	22·7	8·8
300	37·8	
400	52·3	7·7

Question 19(ii)

[illegible]

FIGURE 3



Question 7

(Source: <https://www.shutterstock.com/image-vector/detail-muscle-sarcomere-showing-thin-thick-1288781587>)

Question 11

(Source: <https://www.shutterstock.com/image-vector/conduction-system-heart-showing-sa-av-228014488>)

Question 22

(Source: <https://qualifications.pearson.com/content/dam/pdf/A%20Level/Physical%20Education/2016/Teaching%20and%20learning%20materials/Topic-guide-3-Biomechanical-Movement-final.pdf>)