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2014 AUSTRALIAN SCIENCE OLYMPIAD EXAM PHYSICS – ANSWER BOOKLET FOR SECTION B

TO BE COMPLETED BY THE STUDENT. USE CAPITAL LETTERS.

Student Name:

Home Address:

..... **Post Code:**

Telephone: (.....) **Mobile:**

E-Mail: **Date of Birth:**/...../.....

Male Female **Year 10** **Year 11** **Other:**

Name of School: **State:**

To be eligible for selection for the Australian Science Olympiad Summer School, students must be able to hold an Australian passport by the time of team selection (January 2015).

If you do not complete your contact details above it may not be possible for you to get an offer of a place at the Australian Science Olympiad Summer School.

The Australian Olympiad teams in Biology, Chemistry, Earth and Environmental Science and Physics will be selected from students participating in the Australian Science Olympiad Science Summer School.

Please note - students in Yr12 in 2014 are not eligible to attend the 2015 Australian Science Olympiad Summer School.

I am an Australian public high school student and would like to be considered for the Australian Science Olympiad Summer School Scholarship.

**Data is collected solely for the purpose of Science Summer School offers.
To view the privacy policy:
www.asi.edu.au**

Examiners' Use Only:				
11	12	13	14	T

Question 11

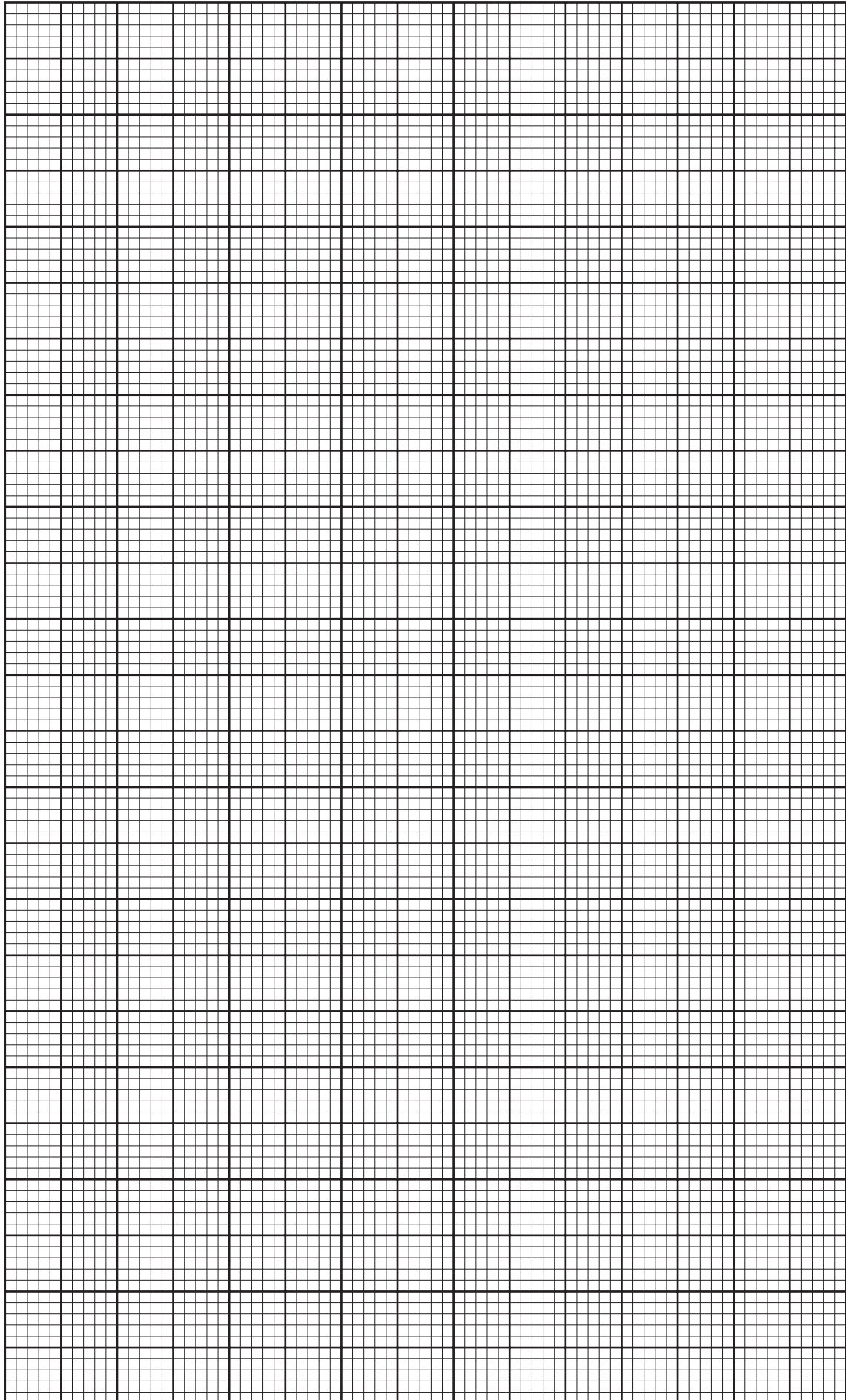
11(a) (ii)

Time after pouring	Initial T_{tea} (°C)	Temperature change in 30 s (°C)	Final T_{tea} (°C)
0 s	100		
30 s			
1 min			
1 min 30 s			
2 min			
2 min 30 s			
3 min			
3 min 30 s			
4 min			
4 min 30 s			

The space below may be used for 11(a)(i) and 11(b)–(d)

Question 11

11(a) (iii)



Question 12

12(a)

12(b)



Question 12

12(c)

Maximum
compression
of second
spring



Maximum compression
of launching spring

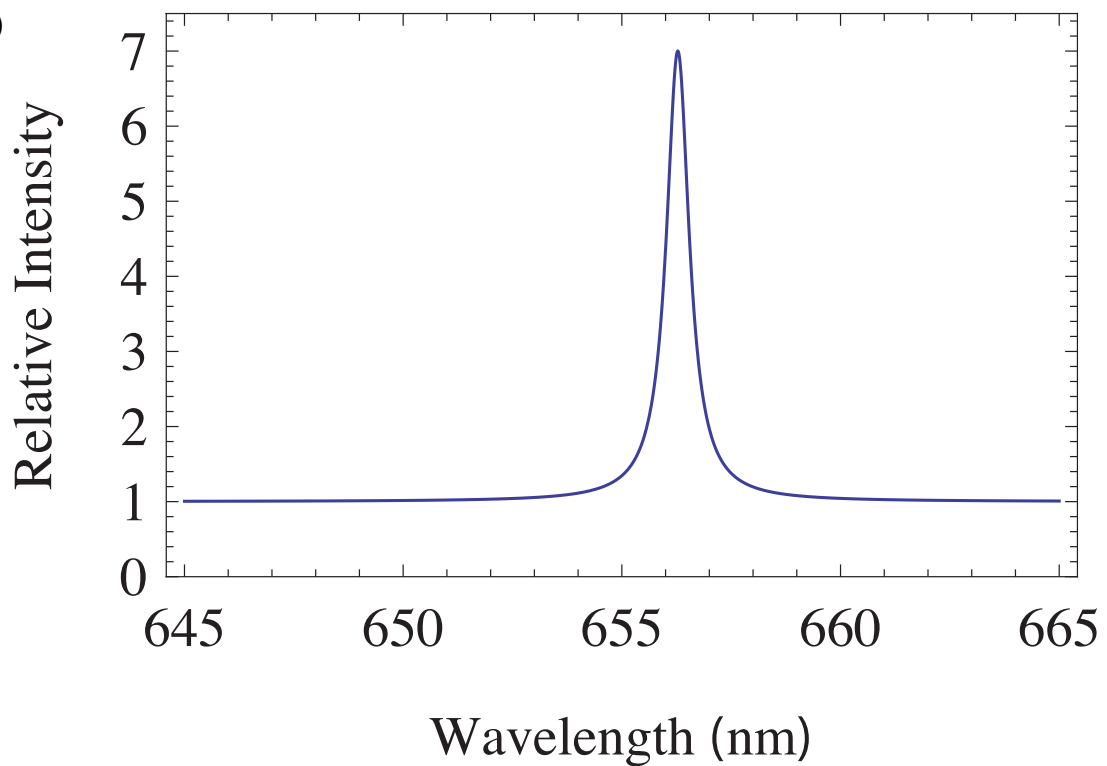
Question 13

Question 13

Question 14

14(a)

14(b)(i)



Question 14

14(b)(ii)

14(c)

Question Number: _____

Question Number: _____

Question Number: _____

Integrity of Competition

If there is evidence of collusion or other academic dishonesty, students will be disqualified. Markers' decisions are final.