

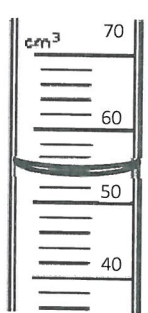
2015-16 S.1 Integrated Science First Examination

Suggested Answer

Section A:

1. D	2. D	3. A	4. A	5. C	6. D	7. D	8. B	9. C	10. B
11. C	12. D	13. A	14. D	15. A	16. C	17. A	18. C		

Section B:

<p>1a. laboratory</p> <p>b. A: We should wear safety goggles when we use Bunsen burner. B: We should not run in the laboratory.</p> <p>c. She has not tied up the long hair. She points the test tube to another student.</p> <p>d. fire extinguisher / fire blanket / sand bucket / water</p> <p>e. She should tell her teacher immediately. She wash the wound with running water.</p>	<p>1</p> <p>2</p> <p>2+1</p> <p>1</p> <p>2</p>						
<p>2a. The diameter of each coin</p> <p>= $5.4 \div 3$</p> <p>= 1.8 cm (no/wrong unit: - 0.5)</p> <p>b(i) The total volume</p> <p>= $(42 + 4 \times 3)$</p> <p>= 54cm^3</p> <p>(ii) </p>	<p>2</p> <p>3</p> <p>1</p>						
<p>3a. Bunsen burner</p> <p>b. A: air hole B: chimney C: collar D: rubber tubing</p> <p>c. 1. Close the air hole 2. Ignite the gas lighter 3. Turn on the gas tap. 4. Open the air hole</p> <p>d.(i) 1. Measure the mass of an empty beaker with a balance. (X) 2. Put the solution M into the beaker. 3. Measure the total mass of beaker and solution M. (Y) 4. Calculate the mass of water by $(Y - X)$.</p> <p>(ii)</p> <table border="1" data-bbox="292 2200 1323 2317"> <tr> <td></td> <td>Setup 1</td> <td>Setup 2</td> </tr> <tr> <td>structure A</td> <td>closed</td> <td>open</td> </tr> </table> <p>(iii) No. The container is not the same in 2 setups.</p>		Setup 1	Setup 2	structure A	closed	open	<p>1</p> <p>4</p> <p>4</p> <p>3+1</p> <p>2</p> <p>2</p>
	Setup 1	Setup 2					
structure A	closed	open					

<p>4a. It is a balance.</p> <p>b(i) $(96 - 86)/2$ = 5g</p> <p>(ii) $(104 - 96)/2$ = 4g</p> <p>(iii) $(96.7 - 86 - 5 - 4)$ = 1.7g</p> <p style="text-align: right;">*(no/wrong unit: - 0.5)</p>	<p>1</p> <p>2</p> <p>2</p> <p>2</p>
<p>5a. shape of candles</p> <p>b. To get a more accurate result by taking average time.</p> <p>c. Since the burning time of the long and thin candle is shorter, her finding does not agree with her hypothesis.</p>	<p>1</p> <p>1</p> <p>2+1</p>
<p>6a. The water in the cup made of glass is the fastest to cool down.</p> <p>b. The size of cups / The thickness of cup / The temperature of air/ Any other correct answer</p> <p>c. thermometer</p> <p>d.(i) The water in the cup made of stainless steel is the fastest to cool down.</p> <p>(ii). correct title: 1 mark correct axis scale: 1 mark correct axis labels: 1 mark correct plotting of points: 1 mark line not joined properly: -1 mark</p>	<p>1</p> <p>2</p> <p>1</p> <p>1</p> <p>4</p>

shape →