

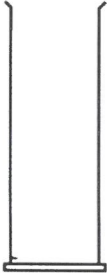
2017-18 S.1 Integrated Science First Examination

Suggested Answer

Section A:

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

Section B:

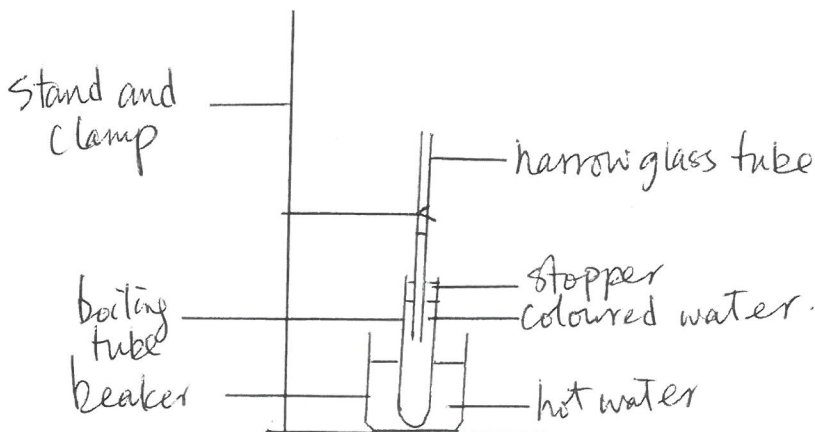
<p>1a. Bunsen burner</p> <p>b. She has put the heat proof mat under the Bunsen burner./ She has tied up her long hair.</p> <p>c. She does not wear safety goggles.</p> <p>d.i) thermometer</p> <p>ii) degree Celsius</p> <p>e. She should tell her teacher immediately.</p> <p>She should wash it with eye-wash bottle.</p>	<p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1</p> <p>1+</p> <p>1</p>									
<p>2a. A: chimney</p> <p>B: collar</p> <p>C: rubber tubing</p> <p>b.</p> <table border="1" data-bbox="193 1101 1284 1317"> <thead> <tr> <th>Part B</th> <th>Shape of flame</th> <th>Noise level</th> </tr> </thead> <tbody> <tr> <td>(i) closed</td> <td>regular</td> <td>noisy</td> </tr> <tr> <td>(ii) open</td> <td>irregular</td> <td>quiet</td> </tr> </tbody> </table> <p>c. fire extinguisher / fire blanket / sand bucket</p>	Part B	Shape of flame	Noise level	(i) closed	regular	noisy	(ii) open	irregular	quiet	<p>@1</p> <p>= 3</p> <p>@1</p> <p>=4</p> <p>Any two,</p> <p>1+ 1</p>
Part B	Shape of flame	Noise level								
(i) closed	regular	noisy								
(ii) open	irregular	quiet								
<p>3a. balance / electronic balance</p> <p>b. i) <math>\frac{113-95}{2}</math> = 9 g</p> <p>ii) <math>\frac{121-113}{2}</math> = 4g</p> <p>iii) <math>25.4 - 4 - 9</math> = 12.4 g</p> <p style="text-align: right;">*(no/wrong unit: - 0.5 for each answer)</p>	<p>1</p> <p>1M + 1A</p> <p>1M + 1A</p> <p>1M + 1A</p>									
<p>4ai) measuring cylinder</p> <p>ii)</p> 	<p>1</p> <p>1</p>									

- b.
1. Put / pour 30 cm<sup>3</sup> of water in a measuring cylinder
  2. Put the eraser into measuring cylinder slowly.
  3. Measure the new volume.(V) / Record the total volume of water and eraser.(V)
  4. Calculate the volume of eraser by (V-30)cm<sup>3</sup>.

1  
1  
1  
1

5a. The coloured water level in a glass tube rises after the <sup>boiling</sup> tube is being put into hot water.

b



1  
  
0.5@  
label and  
drawing  
(total 4)

c. Coloured water level rises higher in hotter water

d. i) the temperature of water

ii) the thickness of glass tube / the volume of hot water / the volume of coloured water / the height of the boiling tube in the hot water / the time for measurement / any reasonable answer

1  
1  
Any two  
(total 2)

6a.

Distance between the lamp and the plant ( cm)	Number of bubbles
50	2
40	8
30	11
20	15
10	22

1 for IV with unit on the left  
1 for DV on the right  
1 for correct table

3

OR

Distance between the lamp and the plant ( cm)	10	20	30	40	50
Number of bubbles	22	15	11	8	2

- b. correct title: 1 mark  
correct axis scale : 1 mark  
correct axis labels ( with unit): 1 mark  
correct plotting of points and joining the points: 1 mark

4

c. When the light source is closer to the plant, more bubbles are given out.

2