## 201510 BA

I means OR eg. green / blue - answer needs green OR blue
( ) means additional, not really required eg. Gauze (mat) - gauze would be sufficient : means AND eg. red : hot - answer needs red and hot.


|  |  | contact with people |  |
| :---: | :---: | :---: | :---: |
|  | (d) | 31-22: 9 ${ }^{\circ} \mathrm{C}$ | 1/2 mark + $1 / 2$ mark |
|  | (e) | germinating seeds produce heat / dead seeds don't produce heat | 1 mark |
| Five | (a) | hydrogen peroxide is liquid/solution / is in funnel: manganese dioxide powder is solid OR need to swap labels for manganese dioxide and hydrogen peroxide over | 1 mark |
|  | (b) | bung / stopper / cork | 1 mark |
|  | (c) | so gas doesn't escape / to hold funnel and tube in place | 1 mark |
|  | (d) | calcium : chloride or salt $1 / 2 \mathrm{mk}$ | 1/2 mark + $1 / 2$ mark |
|  | (e) | bubble gas through : tum white / cloudy / milky | $1 / 2$ mark $+1 / 2$ mark |
| Six | (a) | X somewhere by seat in front of bullet and untouched coffee | 1/2 mark |
|  | (b) | dust with a named / black / white / powder lift with tape / photograph | 1 mark 1 mark |
|  | (c) | loop . arch | 1/2 mark + $1 / 2$ mark |
|  | (d) | 6 | 1/2 mark |
| Seven |  | Any errors e.g. y axis uneven, y axis upside down, no label for y axis, points not plotted with x's, point plotted incorrectly, smooth line / curve of best fit not drawn, poor use of available graph paper, graph had no title etc | 5 errors $=3$ marks; 3-4 errors <br> 2 marks, 1-2 <br> errors 1 mark |
| Eight | (a) | D | 1 mark |
|  | (b) | calcium : magnesium | $1 / 2$ mark $+1 / 2$ mark |
|  | (c) | zinc or Fe | 1 mark |
|  | (d) | $\mathrm{Ca} \mathrm{Mg} \mathrm{Zn} \mathrm{Fe} \mathrm{Cu} \mathrm{NOTE:} 2$ errors $1 / 2$ mark | 1 mark |
| Nine | (a) | Paint is insoluble in water (or what would happen to your car when it rained?) | 1 mark |
|  | (b) | D : matches pattern of paint A on chromatogram | 1 mark |
|  | (c) | Any sensible answer e.g. check and see if paint from courier van matches pattern of spots | 1 mark |
| Ten | (a) | removed: drawing pin, iron nail remained: glass marble, eraser, copper coin, gold ring | 5-6 correct 2 marks, 3-4 correct 1 mark |
|  | (b) | No : answer justified e.g. second strongest magnet was the large magnet B | $1 / 2$ mark $+1 / 2$ mark |
|  | (c) | length of rubber band / distance between iron ball and magnet | 1 mark |




|  | $\mathrm{D}=\mathrm{VII}$ <br> Many students filled in ALL the boxes - in which case just look for <br> VI, II, IX and VII |  |
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