Cambridge International Examinations
Cambridge Primary Checkpoint

| SCIENCE | $0846 / 01$ |
| :--- | ---: |
| Paper 1 | April 2016 |
| MARK SCHEME |  |
| Maximum Mark: 50 |  |

## IMPORTANT NOTICE

Mark Schemes have been issued on the basis of one copy per Assistant Examiner and two copies per Team Leader.


| Question number |  |  | 2Mark | CPS00339 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Part | CF | Skill |  | Answer | Further Information |
| (a) | 6Be1 | K | 1 | littering the forest <br> making paths through the forest <br> protecting the species in the forest removing the fruits from the forest | more than one circled $=0$ marks |
| (b) | 6Be1 | K | 2 | educating people number of tres <br> increases <br> planting new trees know how to care for <br> the environment <br> removing old <br> dead trees more space for <br> new trees to grow | three correct = 2 marks <br> one or two correct = 1 mark <br> if more than one line from a box $=0$ marks for that box |
| Total |  |  | 3 |  |  |


| Question number |  | $\mathbf{3}$ | CPS00497 |  |  |
| :--- | :---: | :---: | :---: | :--- | :--- |
| Part | CF | Skill | Mark | Answer | Further Information |
| (a) | 5 PI 2 | A | 1 | move his hands closer to the screen / <br> move his hands further from the <br> screen $/$ move his hands closer to the <br> light source $/$ move his hands further <br> from the light source |  |
| (b) | $5 P 15$ | A | 1 | Hassan makes a shadow puppet <br> because his hands are opaque. | more than one word $=0$ <br> marks |
| Total |  | $\mathbf{2}$ |  |  |  |


| Question number |  |  | $\mathbf{4}$ | CPS00531 |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :--- | :--- | :---: | :---: | :---: | :---: | :---: |
| Part | CF | Skill | Mark | Answer | Further Information |  |  |  |  |  |
|  | $6 B h 2$ | A | 1 | kidney |  |  |  |  |  |  |
| Total |  |  |  |  |  |  |  | 1 |  |  |


| Question number |  |  | $\qquad$ <br> Mark | CPS00294 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Part | CF | Skill |  | Answer | Further Information |
| (a) | $\begin{aligned} & \text { 6Ep7 } \\ & \text { 6Cc3 } \end{aligned}$ | E | 2 |  | four correct = 2 marks <br> two or three correct = 1 mark <br> one correct $=0$ marks <br> if more than one line from a box $=0$ marks for that box |
| (b) | 6Cc3 | A | 2 | A/A is the colourless solution <br> B / blue solution | do not accept colourless solution for A <br> each correct solid = 1 mark <br> if three given with $\mathbf{A}$ and $\mathbf{B}=1$ mark <br> if three given with either $\mathbf{A}$ or $\mathbf{B}$ given $=0$ marks e.g. AC and D <br> if all four given $=0$ marks |
| (c) | 6Cc3 | A | 1 | D / cloudy mixture | more than one letter = 0 marks |
| Total |  |  | 5 |  |  |


| Ques | n num |  | 6 |  |  | 0415 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part | CF | Skill | Mark | Answer |  |  | Further Information |
|  | 4Ps2 | K | 2 | Sound can travel through air. <br> Sound travels as vibrations. <br> Sound travels at the same speed in all materials. <br> We hear sounds when vibrating air hits our eardrums. | true <br> $\checkmark$ | false <br> $\square$ <br> $\square$ <br> $\checkmark$ | four correct = 2 marks <br> two or three correct = 1 mark <br> one correct $=0$ marks <br> if both boxes ticked in a statement = 0 marks for that statement |
| Total |  |  | 2 |  |  |  |  |


| Question number |  | $\mathbf{7}$ | CPS00135 |  |  |
| :--- | :---: | :---: | :---: | :--- | :--- |
| Part | CF | Skill | Mark | Answer | Further Information |
|  | 6Bh3 | K | 3 | Clue 1: heart <br> Clue 2: brain <br> Clue 3: lung / lungs <br> Clue 4: kidney / kidneys <br> Clue 5: stomach | five correct = 3 marks <br> three or four correct $=$ <br> 2 marks <br> two correct = 1 mark <br> one correct = 0 marks |
| Total |  |  |  |  |  |


| Question number |  |  | $\mathbf{8}$ | CPS00532 |  |  |
| :--- | :---: | :---: | :---: | :--- | :--- | :---: |
| Part | CF | Skill | Mark | Answer | Further Information |  |
| (a) | 4Bh2 | A | 1 | All the skeletons protect the organs <br> inside the body. true <br> All the skeletons grow as the animals <br> grow. true | both answers true $=$ <br> 1 mark |  |
| (b) | 4Bh3 | A | 1 | Two of the skeletons are human. false <br> Only humans have muscles attached to <br> the bones. false | both answers false $=$ <br> 1 mark |  |
| Total |  | $\mathbf{2}$ |  |  |  |  |



| Question number |  |  | $\mathbf{1 0}$ | CPS00485 |  |  |  |
| :--- | :---: | :---: | :---: | :--- | :--- | :--- | :--- |
| Part | CF | Skill | Mark | Answer | Further Information |  |  |
| (a) | $5 P I 5$ | A | 1 | 1 | 2 | 3 | 5 |


| Question number |  |  | 11 | CPS00467 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Part | CF | Skill | Mark |  | Further Information |
|  | 4Cs3 | K | 2 | At sea level water boils at $90^{\circ} \mathrm{C}$. <br> Steam condenses to make water vapour. <br> The boiling of water is an irreversible process. <br> The freezing point of water is the same as the melting point of ice. <br> The melting point of ice is $0^{\circ} \mathrm{C}$ $\square$ <br> Water evaporates to make ice. | one mark for each correct tick <br> three ticks, two correct = 1 mark <br> three ticks, one correct $=0$ marks <br> four ticks = 0 marks |
| Total |  |  | 2 |  |  |



| Question number |  | 13 | CPS00444 |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :--- |
| Part | CF | Skill | Mark | Answer | Further Information |  |
|  | 5 Pb 3 | K | 1 | Chen | Mike | Oliver | | more than one circle $=$ |
| :--- |
| 0 marks |


| Question number |  |  | 14Mark | CPS00262 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Part | CF | Skill |  | Answer | Further Information |
| (a) | 3Cp4 | A | 2 | This is because plastic does not dissolve (in water) / is insoluble. <br> This is because pottery does not dissolve (in water) / is insoluble / (has a melting point above) $700^{\circ} \mathrm{C}$ | each correct answer = 1 mark |
| (b) | 6Cc2 | A | 1 | add water, filter and evaporate the filtrate <br> evaporate the mixture and then condense the vapour <br> filter the mixture <br> use a magnet | more than one tick $=0$ marks |
| (c) | 6 Cc 2 | A | 1 | add water, filter and evaporate the filtrate <br> evaporate the mixture and then condense the vapour <br> filter the mixture <br> use a magnet | more than one tick $=0$ marks |
|  |  |  | 4 |  |  |


| Question number |  |  | 15 | CPS00268 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Part | CF | Skill | Mark | Answer | Further Information |
| (a) | $\begin{aligned} & \text { 3Bh5 } \\ & \text { 3Eo4 } \end{aligned}$ | E | 1 | (area) D / tip of tongue | more than one letter $=$ 0 marks |
| (b) | $\begin{aligned} & \text { 3Bh5 } \\ & \text { 5Eo5 } \end{aligned}$ | E | 1 | (idea that) she did not taste any / cannot taste (in the middle part) |  |
| (c) | $\begin{aligned} & \text { 3Bh5 } \\ & \text { 5Eo7 } \end{aligned}$ | E | 1 | yes <br> (idea that) area D can taste sweet / the tip of the tongue can taste sweet | both parts correct $=1$ mark |
| Total |  |  | 3 |  |  |


| Question number |  |  | 16 | CPS00411 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part | CF | Skill | Mark | Answer |  | Further Information |
|  | 5Pb4 | K | 1 | Albert Einstein <br> Galileo Galilei <br> Isaac Newton <br> Robert Hooke |  | more than one tick $=0$ marks |
| Total |  |  | 1 |  |  |  |


| Question number |  |  | 17 | CPS00477 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Part | CF | Skill | Mark | Answer | Further Information |
| (a) | 6Pf2 | K | 1 | $\begin{array}{lll} X & Y & Z \end{array}$ | more than one letter circled $=0$ marks |
| (b) | 6Pf4 | A | 1 | $X \quad Y \quad Z \quad W$ | more than one letter circled $=0$ marks |
| Total |  |  | 2 |  |  |


| Question number |  |  | $\mathbf{1 8}$ | CPS00461 |  |  |
| :--- | :---: | :---: | :---: | :--- | :--- | :---: |
| Part | CF | Skill | Mark | Answer | Further Information |  |
| (a) | 6 Cc 3 | K | 1 | Salt dissolves in water to make a <br> solution. | more than one word $=$ <br> 0 marks |  |
| (b) | 6 Cc 3 | K | 1 | Water is the solvent in this process. | more than one word $=$ <br> 0 marks |  |
| (c) | 6 Cc 3 | K | 1 | Salt is the solute in the solution. | more than one word $=$ <br> 0 marks |  |
| (d) | 6 Cc 3 | K | 1 | When water evaporates from the <br> salt solution a white solid is left behind. | more than one word $=$ <br> 0 marks |  |
| (e) | 6 Cc 3 | K | 1 | Sand does not make a solution when <br> mixed with water because it is <br> insoluble. | more than one word $=$ <br> 0 marks |  |
| Total |  |  |  |  |  |  |


| Question number |  |  | 19 | CPS00522 |  |  |
| :--- | :---: | :---: | :---: | :--- | :--- | :---: |
| Part | CF | Skill | Mark | Answer | Further Information |  |
| (a) | 5 Ep4 <br> $5 B p 3$ | E | 1 | (idea of) a fair test / to make it fair |  |  |
| (b) | $5 E p 4$ <br> $5 B p 3$ | E | 1 | (idea of same) speed / time / shoe(s) |  |  |
| Total |  |  |  |  |  |  |

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