

### THE PIQUE LAB LEARNING CENTRE

**Primary School Science Programme** 



### P5 CCI™ SCIENCE COURSE

**Answer Booklet (2025)** 

| Name:  |  |  |  |
|--------|--|--|--|
| Class: |  |  |  |

## **TOPICS COVERED**

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# **2025 P5 CCITM SCIENCE COURSE**TOPIC: ANIMAL CYCLES

| Qn     | Answer                                                                          |
|--------|---------------------------------------------------------------------------------|
| Q1 (a) | [Hint: Refer to page <u>1</u> of P5 CCI notes Volume 1]                         |
|        |                                                                                 |
|        | Butterfly: B                                                                    |
|        | Toad: A                                                                         |
|        | Cockroach: D                                                                    |
| Q1 (b) | [Hint: Refer to page <u>2</u> of P5 CCI notes Volume 1]                         |
|        | Both have an egg stage / adult stage.                                           |
| Q1 (c) |                                                                                 |
|        | [Try by yourself: Refer to page <u>8</u> , A <u>3</u> of P5 CCI notes Volume 1] |
|        |                                                                                 |
|        | This increases the chances that some eggs will not be eaten by                  |
|        | predators, can hatch to form young and develop into adults to                   |
|        | reproduce, ensuring the continuity of its own kind.                             |
|        | Lay eggs on the underside of leaves:                                            |
|        | [Try by yourself: Refer to page <u>8</u> , A <u>5</u> of P5 CCI notes Volume 1] |
|        |                                                                                 |
|        | This prevents predators of the eggs from spotting them easily.                  |
| Q2 (a) | [Hint: Refer to page <u>1</u> of P5 CCI notes Volume 1]                         |
|        |                                                                                 |
|        | Egg  ▼                                                                          |
|        |                                                                                 |
|        |                                                                                 |
|        | Larva Adult                                                                     |
|        |                                                                                 |
|        |                                                                                 |
|        | Yanga /                                                                         |
| Q2 (b) | [Hint: Refer to page <u>3</u> , Case <u>1.2</u> of P5 CCI notes Volume 1]       |
|        | 16 <u>days</u>                                                                  |
|        | · · · <u>, -</u>                                                                |
|        | *2 days (Egg) + 6 days (Larva) + 8 days (Pupa)                                  |
|        |                                                                                 |

| Q2 (c) | [Hint: Refer to page <u>6</u> of P5 CCI notes Volume 1]                                                                                                                                                                                           |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | Pupa                                                                                                                                                                                                                                              |
|        | *10 days = 6 days (Larva) + 4 days (In the pupa stage)                                                                                                                                                                                            |
| Q2 (d) | [Try by yourself: Refer to page 9, A 9 of P5 CCI notes Volume 1]                                                                                                                                                                                  |
|        | The larva moults, unlike the pupa. / The larva feeds, unlike the                                                                                                                                                                                  |
|        | pupa. / The larva moves from place to place, unlike the pupa.                                                                                                                                                                                     |
| Q3 (a) | [Try it yourself: Refer to page <u>7</u> of P5 CCI notes Volume 1]                                                                                                                                                                                |
|        | As the surrounding temperature increases, the number of days to complete the life cycle of the Aedes mosquito decreases.  Thus, the eggs can develop into adults faster and there will be more adult Aedes mosquitoes to spread the Dengue virus. |
| Q3 (b) | When the eggs develop into <u>adults</u> , they are too <u>large</u> and                                                                                                                                                                          |
|        | cannot <u>escape</u> through the wire mesh.                                                                                                                                                                                                       |
| Q3 (c) | Rainwater could enter the container, causing the water level in                                                                                                                                                                                   |
|        | the trap to rise above the <u>wire mesh</u> . Thus, the eggs will be laid                                                                                                                                                                         |
|        | above the <u>wire mesh</u> , and when they develop into <u>adults</u> , they                                                                                                                                                                      |
|        | can <u>escape</u> out of the trap.                                                                                                                                                                                                                |

### **2025 P5 CCI™ SCIENCE COURSE**

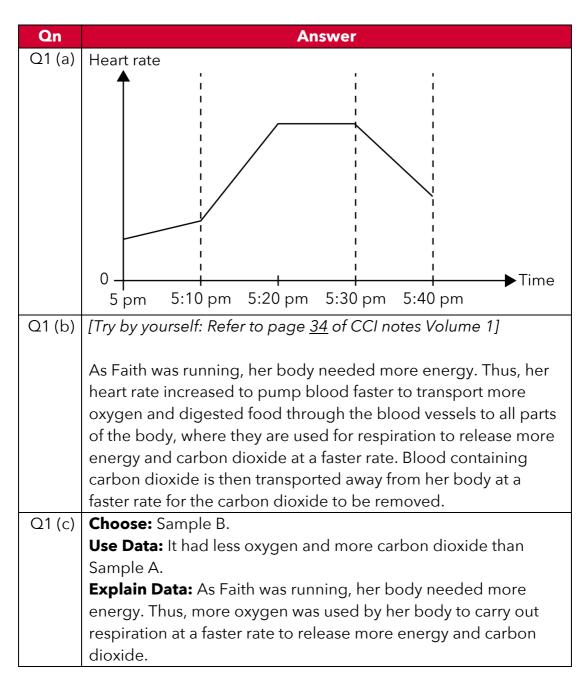
**TOPIC: MATERIALS** 

| Qn | Answer                                                                         |  |  |
|----|--------------------------------------------------------------------------------|--|--|
| Q1 | (i) Skipping rope: B                                                           |  |  |
|    | (ii) Tissue paper: C                                                           |  |  |
| Q2 | [Hint: Apply the <u>CUE(PP)</u> structure]                                     |  |  |
|    |                                                                                |  |  |
|    | Choose: J.                                                                     |  |  |
|    | <b>Use Data:</b> Distance d was the least for J.                               |  |  |
|    | <b>Explain Data:</b> This shows that J is the most flexible. <b>(Property)</b> |  |  |
|    | Thus, a pole vault made of J would be best able to propel the                  |  |  |
|    | gymnast forward. (Purpose)                                                     |  |  |
| Q3 | Choose: G.                                                                     |  |  |
|    | Use data: G is strong and not flexible / rigid. (Property)                     |  |  |
|    | <b>Explain:</b> Thus, the handle made of G would not break and bend            |  |  |
|    | easily when the user is holding it. (Purpose)                                  |  |  |

## 2025 P5 CCI<sup>TM</sup> SCIENCE COURSE TOPIC: BODY SYSTEMS

#### Techniques:

- 1) 3 ways on how the 5 systems work together
- 2) Apply template answers Heart rate/breathing rate/pulse rate
- 3) Increased (exposed) surface area (Chewing/Air sacs/Villi)
- 4) Graph for oxygen/ carbon dioxide in the circulatory system
- 5) Inhaled Air VS Exhaled Air



| Q2 (a) | Mouth, stomach and small intestine.                                 |  |  |
|--------|---------------------------------------------------------------------|--|--|
| Q2 (b) | [Try by yourself: Refer to page <u>23</u> of CCI notes Volume 1]    |  |  |
|        |                                                                     |  |  |
|        | There are numerous folds found on the walls of the small            |  |  |
|        | intestine. They increase the surface area of the walls of the small |  |  |
|        | intestine in contact with the digested food for faster absorption   |  |  |
|        | of digested food into the bloodstream.                              |  |  |
| Q2 (c) | The digestive juices released by the digestive system are not       |  |  |
|        | able to break down some of the undigested food into simpler         |  |  |
|        | substances.                                                         |  |  |
| Q3     | The blood vessels near the skin surface become extremely            |  |  |
|        | narrow. This causes insufficient blood containing oxygen and        |  |  |
|        | digested food to be transported to the skin cells, causing the      |  |  |
|        | skin cells to carry out insufficient respiration to release         |  |  |
|        | insufficient energy.                                                |  |  |

# **2025 P5 CCITM SCIENCE COURSE**TOPIC: HEAT ENERGY

### Techniques:

1) HPC Structure of writing

| Qn     | Answer                                                                                                                       |
|--------|------------------------------------------------------------------------------------------------------------------------------|
| Q1 (a) | [Hint: Refer to page <u>7</u> of CCI notes Volume 2]                                                                         |
|        |                                                                                                                              |
|        | The water (H) gained heat from the warmer surrounding air (P) to                                                             |
|        | evaporate (C) and form water vapour.                                                                                         |
| Q1 (b) | [Hint: Refer to page <u>9</u> of CCI notes Volume 2]                                                                         |
|        |                                                                                                                              |
|        | Choose any 2 factors:                                                                                                        |
|        | i) Greater wind speed                                                                                                        |
|        | ii) Larger exposed surface area of the water puddle                                                                          |
|        | iii) Higher temperature of the surrounding air                                                                               |
| 01(c)  | iv) Lower humidity level (not in syllabus)                                                                                   |
| Q1 (c) | [Try by yourself: Refer to page <u>10</u> of CCI notes Volume 2]                                                             |
|        | The presence of wind from the breeze caused the water in the                                                                 |
|        | sweat on the surface of his skin to (P) evaporate faster, causing                                                            |
|        | his body to lose heat to the water faster and cool faster.                                                                   |
| Q2 (a) | [Try by yourself: Refer to page <u>12</u> of CCI notes Volume 2]                                                             |
|        |                                                                                                                              |
|        | The cups lost heat to the cold water to become cooler. The                                                                   |
|        | warmer water vapour from the surrounding air came into contact                                                               |
|        | with the cooler outer surface of the cups, (H) lost heat to them (P)                                                         |
| 02/5)  | and condensed (C) to form water droplets.                                                                                    |
| Q2 (b) | Cup A is made of a better conductor of heat than cup B. Thus, the warmer water vapour from the surrounding air (H) lost heat |
|        | faster to the cooler outer surface of cup A and (P) condensed                                                                |
|        | faster to (C) form more water droplets.                                                                                      |
|        | laster to (5) ferri more water droplets.                                                                                     |
|        |                                                                                                                              |
|        |                                                                                                                              |
|        |                                                                                                                              |
|        |                                                                                                                              |
|        |                                                                                                                              |

| Q2 (c) | Choose: Cup A.                                                        |
|--------|-----------------------------------------------------------------------|
|        | <b>Use Data:</b> There were more water droplets on the outer surface  |
|        | of cup A than cup B.                                                  |
|        | <b>Explain Data:</b> This shows that cup A is made of a better        |
|        | conductor of heat (Property), allowing cup A to conduct heat          |
|        | faster from the hot coffee to the cooler surrounding air              |
|        | (Purpose).                                                            |
| Q3 (a) | Yes. The metal lid is a better conductor of heat than the glass       |
|        | bottle. Thus, the metal lid would (H) gain heat faster from the hot   |
|        | water and (P) expand faster than the glass bottle, allowing the       |
|        | metal lid to loosen and be removed more easily.                       |
| Q3 (b) | Glass is a poor conductor of heat. When the jam jar was placed in     |
|        | iced water, the outer surface of the jar lost heat faster to the iced |
|        | water and contracted faster than the inner surface of the jar. The    |
|        | difference in the rate of contraction between the outer and inner     |
|        | surface of the jar caused it to crack.                                |

# **2025 P5 CCITM SCIENCE COURSE**TOPIC: WATER CYCLE

| Qn     | Answer                                                                        |
|--------|-------------------------------------------------------------------------------|
| Q1 (a) | Clouds: Water droplets                                                        |
|        | <b>Water from water bodies:</b> Water at 80 °C                                |
|        | Cooler surrounding air: Plastic sheet                                         |
| Q1 (b) | [Try by yourself: Refer to page <u>26</u> , Q <u>1</u> of CCI notes Volume 2] |
|        | Plastic sheet:                                                                |
|        | The plastic sheet prevents water vapour from escaping. The                    |
|        | warmer water vapour that comes into contact with it would (H)                 |
|        | lose heat to the plastic sheet and (P) condense (C) to form water droplets.   |
|        | [Try by yourself: Refer to page <u>26</u> , Q <u>3</u> of CCI notes Volume 2] |
|        | Ice cubes:                                                                    |
|        | The plastic sheet loses heat to the ice cubes and becomes                     |
|        | cooler. There is now a larger temperature difference between                  |
|        | the water vapour and the plastic sheet. This allows the warmer                |
|        | water vapour that comes into contact with the cooler underside                |
|        | of the plastic sheet to (H) lose heat faster to it and (P) condense           |
|        | faster (C) to form more water droplets.                                       |
| Q1 (c) | [Try by yourself: Refer to page <u>27</u> , Q <u>4</u> of CCI notes Volume 2] |
|        | Water droplets would form on the outer surface of the beaker                  |
|        | instead of on the underside of the plastic sheet. The beaker                  |
|        | would lose heat to the cold 5 °C water to become cooler. The                  |
|        | warmer water vapour from the surrounding air would come into                  |
|        | contact with the cooler outer surface of the beaker, (H) lose heat            |
|        | to it and (P) condense (C) to form water droplets.                            |
| Q2 (a) | There were holes in terrarium B. Thus, when the water in the soil             |
|        | evaporated to form water vapour, the water vapour was able to                 |
|        | escape through the holes. This caused the soil to become dry                  |
|        | and the roots did not have water to absorb. As the plants did not             |
|        | have water for photosynthesis to make food, they died.                        |
|        |                                                                               |
|        |                                                                               |

Q2 (b) [Try by yourself: Refer to page  $\underline{22}$ , Q1 of CCI notes Volume 2] The water from the moist soil (H) gains heat from the warmer surrounding air to (P) evaporate and (C) form water vapour. Water is also lost through the stomata of the plants as water vapour (in the process of transpiration). The warmer water vapour then rises and comes into contact with the cooler inner surface of terrarium A, (H) loses heat to it and (P) condenses to (C) form water droplets. The water droplets fall back to the soil and the cycle repeats itself. Q3 (a) [Try by yourself: Refer to page 23, Q1 of CCI notes Volume 2] The water in the sea water (H) gains heat from the flame of the Bunsen burner and (P) evaporates to (C) form water vapour. The warmer water vapour rises and enters the delivery tube, (H) loses heat to the cooler inner surface of the delivery tube, and (P) condenses (C) to form water droplets, which drip into the beaker to be collected as pure water. [Try by yourself: Refer to page  $\underline{27}$ ,  $Q\underline{5}$  of CCI notes Volume 2] Q3 (b) The cold cloth and delivery tube gained heat from the warmer water vapour to become warmer. There is now a smaller temperature difference between the water vapour and the delivery tube. This causes the warmer water vapour to (H) lose heat slower to the cooler inner surface of the delivery tube and (P) condense slower (C) to form less water droplets.

Q3 (c)

Salt. Salt is unable to evaporate.

# **2025 P5 CCITM SCIENCE COURSE**TOPIC: LIGHT & SHADOWS

### Techniques:

- Apply light template answer
- Apply shadow template answer

| Qn     | Answer                                                             |  |  |
|--------|--------------------------------------------------------------------|--|--|
|        | 1                                                                  |  |  |
| -      | Light travels in a straight line.                                  |  |  |
|        | [Hint: Refer to page <u>1</u> of CCI notes Volume 3]               |  |  |
| ( - /  |                                                                    |  |  |
|        | Light from the light source, which travels in a straight line, is  |  |  |
|        | (completely) blocked by the puppet, which is opaque.               |  |  |
| Q1     | The shadow formed on the screen facing the audience may be         |  |  |
| (cii)  | too faint for them to see the shadow clearly.                      |  |  |
| Q1 (d) | Bring the puppet closer to the screen.                             |  |  |
| Q1 (e) | The size of the shadow formed on it would decrease. The            |  |  |
|        | audience may not be able to see the movement of the smaller        |  |  |
|        | shadow easily.                                                     |  |  |
| Q2 (a) |                                                                    |  |  |
|        |                                                                    |  |  |
|        |                                                                    |  |  |
|        |                                                                    |  |  |
|        |                                                                    |  |  |
|        |                                                                    |  |  |
|        |                                                                    |  |  |
|        | Box 1 Box 2                                                        |  |  |
| Q2 (b) | Material P is opaque.                                              |  |  |
|        |                                                                    |  |  |
|        | Use Shadow Template:                                               |  |  |
|        | Thus, light from the torchlight, which travels in a straight line, |  |  |
|        | could not pass through material P and could not be blocked by      |  |  |
|        | the mirror.                                                        |  |  |
|        |                                                                    |  |  |
|        |                                                                    |  |  |
|        |                                                                    |  |  |

Q3 (a)

White shirt

Reflective vest

Headlights

Q3 (b)

[Hint: Refer to page 1 of CCI notes Volume 3]

Choose: Cyclist B.

Use Data: Cyclist B is wearing a reflective vest.

Explain Data: Thus, more light from the headlights of the car would be reflected off the reflective vest of cyclist B into the driver's eyes.

# 2025 P5 CCI<sup>TM</sup> SCIENCE COURSE TOPIC: MAGNETS

### Techniques:

- 1) 3 Golden Rules of magnetism
- 2) Unlike poles of magnets facing each other attract
- 3) Like poles of magnets facing each other repel
- 4) Attract object with a **GREATER** magnetic force

| Qn     | Answer                                                                                                                                                                                                                                                                                                        |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Q1 (a) | [Hint: Refer to page <u>19</u> of CCI notes Volume 3]                                                                                                                                                                                                                                                         |
|        | Place the magnet beside the bottom right corner of the plastic tank. (1) The magnet's magnetism will act at a distance and (2) pass through the non-magnetic plastic tank and oil, to (3) attract the magnetic iron disc. Move the magnet towards the small opening with the iron disc still attracted to it. |
| Q1 (b) | No. Aluminium is a non-magnetic material and would not be attracted by the magnet.                                                                                                                                                                                                                            |
| Q2 (a) | [Try by yourself: Refer to page <u>17</u> of CCI notes Volume 3]                                                                                                                                                                                                                                              |
|        | Choose: The steel rod would move towards iron rod Y. Use data: Circuit B has more batteries, Explain data: causing iron rod Y to become an electromagnet with a greater magnetic strength and attract the steel rod with a greater magnetic force than iron rod X.                                            |
| Q2 (b) | When the switch is closed, there would be a closed circuit. Thus, electric current flows through the coils of wire, causing the iron core to become an electromagnet.  (1) The electromagnet's magnetism acts at a distance (3) to attract the magnetic steel block.                                          |
|        |                                                                                                                                                                                                                                                                                                               |

### Q3 (a) [Try by yourself: Refer to page <u>15</u> of CCI notes Volume 3]

The magnet attracts **only** the magnetic metals, causing them to remain on the moving belt while the non-magnetic metals fall off the belt and are collected in container B.

As the magnetic metals move towards container A, (\*add on)

**\*P5 Answer:** they move further away from the magnet. The magnet can no longer attract the magnetic metals, causing them to fall into container A to be collected.

**\*P6 Answer:** the magnetic force of attraction acting on the magnetic metals becomes weaker than the gravitational force acting on the magnetic metals, causing them to fall into container A to be collected.

### Q3 (b) P5 Answer: (Use magnets to explain)

Some of the magnetic metals were too heavy. Thus, the magnetic force of attraction was not strong enough to attract the magnetic metals.

### P6 Answer: (Use forces to explain)

Some of the magnetic metals were too heavy. The gravitational force acting on the magnetic metals was stronger than the magnetic force of attraction acting on the magnetic metals.

# 2025 P5 CCI™ SCIENCE COURSE TOPIC: PLANT CYCLE

#### Commonly tested processes:

- 1) Germination
- 2) Photosynthesis
- 3) Respiration
- 4) Transpiration
- 5) Types VS agents of pollination (Special characteristics of the flower)
- 6) Seed Dispersal
- 7) Each time an adaptation is mentioned, it is mandatory to <u>EXPLAIN</u> the adaptation.

| Qn     | Answer                                                                |
|--------|-----------------------------------------------------------------------|
| Q1 (a) | A, C, B, D                                                            |
| Q1 (b) | Decrease in the mass of the seed leaves:                              |
|        | The food stored in the seed leaves is used by the plant to carry      |
|        | out respiration to release energy until the true leaves are fully     |
|        | developed.                                                            |
|        |                                                                       |
|        | Increase in the mass of the seedling:                                 |
|        | The seedling uses food stored in the seed leaves to carry out         |
|        | respiration to release energy for growth.                             |
| Q1 (c) |                                                                       |
| , ,    | chlorophyll to absorb sunlight to make its own food.                  |
| Q2 (a) | [Hint: Refer to page <u>13</u> of CCI notes Volume 4]                 |
| , ,    | , 3 —                                                                 |
|        | Choose: W.                                                            |
|        | Use data: Only the stem above part Q swelled.                         |
|        | <b>Explain data:</b> At part Q, the food-carrying tubes were removed. |
|        | Thus, food <b>made by the leaves</b> between parts P and Q could      |
|        | not be transported past part Q down to the roots. The food            |
|        | accumulated above part Q.                                             |
|        | <u></u>                                                               |
|        |                                                                       |
|        |                                                                       |
|        |                                                                       |
|        |                                                                       |
|        |                                                                       |
|        |                                                                       |



| Q2 (b) | [Try by yourself: Refer to page <u>15</u> , scenario <u>3B</u> of CCI notes |
|--------|-----------------------------------------------------------------------------|
|        | Volume 4]                                                                   |
|        |                                                                             |
|        | No. At part P, both the food-carrying tubes and the water-                  |
|        | carrying tubes were removed. Water <u>absorbed by the roots</u>             |
|        | could not be transported past part P <b>up</b> to the leaves. Thus, the     |
|        | leaves above part P <b>could not receive water for</b>                      |
|        | photosynthesis to make food and died.                                       |
| Q3 (a) | Plant Q; Plant P                                                            |
| Q3 (b) | [Hint: Refer to page <u>19</u> of CCI notes Volume 4]                       |
|        |                                                                             |
|        | <b>Use data:</b> There are more young plant P found further from the        |
|        | parent plant than Q.                                                        |
|        | <b>Explain data:</b> The fruits of plant P have wing-like structures to     |
|        | allow the fruit to stay longer in the air and be dispersed further          |
|        | away from the parent plant by wind, as shown in the graph.                  |
| Q3 (c) | [Try by yourself: Refer to page <u>25</u> of CCI notes Volume 4]            |
|        |                                                                             |
|        | The fruits of the plants on Island Y have a fibrous husk that traps         |
|        | air, allowing them to float on water to reach island Z. Under               |
|        | suitable conditions, the seeds in the fruits germinated to form             |
|        | young plants.                                                               |
| Q4 (a) | It decreases/ slows down water loss (through the stomata).                  |
| Q4 (b) | The wilting leaves have <u>less exposed surface area in contact with</u>    |
|        | sunlight, causing the <u>leaves to absorb less sunlight</u> .               |
| Q5     | The plants at the upper layers block sunlight from reaching the             |
|        | forest floor. Thus, the plants at the forest floor would absorb             |
|        | insufficient sunlight to carry out insufficient photosynthesis to           |
|        | make insufficient food.                                                     |

# **2025 P5 CCITM SCIENCE COURSE**TOPIC: PLANT & ANIMAL REPRODUCTION

#### Commonly asked questions:

- Advantage of having 2 ovaries/testes.
  - o Why are many sperms released at once?
  - o Why do insects lay many eggs at once?
- What is the similarity/difference between the process of fertilisation in plants and animals?
- Note that some teachers prefer their students to use "nucleus of sperm fuses with nucleus of egg" while others simply require "sperm fuses with egg".

| 0      | <b>*</b> • • • • • • • • • • • • • • • • • • •                      |
|--------|---------------------------------------------------------------------|
| Qn     | Answer                                                              |
| Q1 (a) |                                                                     |
|        | <b>Reason:</b> The anthers are dangling outside of the flower. This |
|        | allows the wind to carry the pollen grains from the anther away     |
|        | easily.                                                             |
| Q1 (b) | Flower B is pollinated by: Birds/Insects                            |
|        | <b>Reason:</b> The anthers are inside the flower. When the birds or |
|        | insects visit the flower to obtain nectar, their bodies would rub   |
|        | against the anther, causing pollen grains to be stuck on them.      |
| Q2 (a) | [Try by yourself: Refer to page <u>38</u> of CCI notes Volume 4]    |
|        |                                                                     |
|        | Cutting the flower at point A removes the stigma. Thus, there is    |
|        | no stigma to receive the pollen grains. As a result, pollination    |
|        | and fertilisation cannot occur.                                     |
| Q2 (b) | [Try by yourself: Refer to page <u>38</u> of CCI notes Volume 4]    |
|        |                                                                     |
|        | No. Cutting the flower at point B and C removes the anthers.        |
|        | Pollen grains from the anthers of other flowers of the same         |
|        | species can still land on the flower's stigma in the process of     |
|        | pollination, allowing fertilisation to still occur.                 |
| Q2 (c) | [Try by yourself: Refer to page <u>31</u> of CCI notes Volume 4]    |
|        |                                                                     |
|        | The sperm cannot meet and fuse with the egg in the fallopian        |
|        | tube for fertilisation.                                             |
|        |                                                                     |
|        |                                                                     |
|        |                                                                     |

| Q2 (d) | [Try by yourself: Refer to page <u>34</u> of CCI notes Volume 4]                                                                                                          |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | When one ovary is removed / damaged, the other ovary can still produce eggs. A sperm can still fuse with the egg for fertilisation (ensuring the continuity of our kind). |
|        | *Fertilisation takes place in the fallopian tubes.                                                                                                                        |
| Q2 (e) | [Try by yourself: Refer to page <u>39</u> of CCI notes Volume 4]                                                                                                          |
|        | Fertilisation in the human female reproductive system takes place at the fallopian tube while fertilisation of the flower takes place in the ovule.                       |
| Q3 (a) | Choose: Flower X.                                                                                                                                                         |
|        | <b>Use data:</b> The flower has brightly-coloured petals                                                                                                                  |
|        | <b>Explain data:</b> to attract pollinators.                                                                                                                              |
|        | <b>Use data:</b> Additionally, it still has its stigma                                                                                                                    |
|        | <b>Explain data:</b> to receive pollen grains from the pollinators' body                                                                                                  |
|        | in the process of pollination, allowing fertilisation to occur.                                                                                                           |
| Q3 (b) | The male wasps will be attracted to the hammer orchid.                                                                                                                    |
|        | The pollen grains on the body of the male wasps will be transferred to the stigma of the hammer orchid.                                                                   |