


**Mendaki ERC  
P6 Foundation Science 2024  
Answer Key  
Section A**

<b>Question</b>	<b>Ans</b>	<b>Question</b>	<b>Ans</b>
<b>1</b>	1	<b>10</b>	3
<b>2</b>	3	<b>11</b>	3
<b>3</b>	2	<b>12</b>	1
<b>4</b>	2	<b>13</b>	2
<b>5</b>	2	<b>14</b>	1
<b>6</b>	3	<b>15</b>	3
<b>7</b>	3	<b>16</b>	2
<b>8</b>	1	<b>17</b>	1
<b>9</b>	2	<b>18</b>	3

**Section B**

Questions	Answers	Remarks								
19	<table border="1"> <thead> <tr> <th>Characteristics</th> <th>Feet</th> </tr> </thead> <tbody> <tr> <td>Has sharp nails to scratch the soil for worms</td> <td>A</td> </tr> <tr> <td>Used for swimming in the water.</td> <td>B</td> </tr> <tr> <td>Has sharp and curved claws for grabbing its prey.</td> <td>C</td> </tr> </tbody> </table> <p>1 correct option - [1], 3 correct options - [2]</p>	Characteristics	Feet	Has sharp nails to scratch the soil for worms	A	Used for swimming in the water.	B	Has sharp and curved claws for grabbing its prey.	C	
Characteristics	Feet									
Has sharp nails to scratch the soil for worms	A									
Used for swimming in the water.	B									
Has sharp and curved claws for grabbing its prey.	C									
20 (a)	Z [1]									
(b)	Drawing of arrow showing direction from anther to stigma. [1]									
21	Plants → Rat → Snake → Eagle [1] shows one correct relationship. [2] shows all correct relationship									
22 (a)	Structural [1]									
(b)	Behavioural [1]									
(c)	Structural [1]									
23 (a)	Respiratory [1]									
(b)	Gases [1]									

<b>24 (a)</b>	Poor conductor of heat / Good insulator of heat [1]	
<b>(b)</b>	Material P <u>does not allow heat to pass through it easily</u> . [1]	
<b>(c)</b>	0°C	
<b>25(a)(i)</b>	X : by water [1]	Reject "Hollow" and "light"
<b>(ii)</b>	Y: splitting action / explosive action [1]	
<b>(b)</b>	Fibrous husk / waterproof outer shell / air trapped in the fruit [1]	
<b>26 (a)</b>	The water in sea water gained heat from the surroundings and evaporated to form water vapour [1]. The warm water vapour comes into contact with the cool surface of the plastic sheet, loses heat and condenses into pure water. [1].	
<b>(b)</b>	Decrease [1]	
<b>27 (a)</b>	 <p>1m for all correct symbols, 1m for closed connection, no gaps in wiring</p>	
<b>(b)</b>	Electric current can only flow through a closed circuit. [1]	
<b>(c)</b>	Bulb is fused / Battery has run out. [1]	

<b>28 (a)</b>	Pollination [1]	
<b>(b)</b>	Compete/fight for light Compete/fight for water  [1] each correct answer, Compete/fight for air/oxygen [0]	
<b>29 (a)(i)</b>	Type of batteries used / Number of coils around the iron nail [1]	Do not accept battery Number of batteries
<b>(ii)</b>	Distance of electromagnet from pins [1]	
<b>(b)</b>	When the number of batteries increases, the number of pins attracted by the electromagnet increases. [1]	
<b>(c)</b>	It did not attract any pins. [1] Aluminium is not a magnetic material [1/2] and cannot be made into an electromagnet. [1/2]	<b>Reject “Nothing will happen”</b>
<b>30 (a)</b>	Frictional force [1]	
<b>(b)</b>	Surface Y. [1] <u>Time taken</u> is <u>longer</u> [1/2] as there is <u>more friction</u> . [1/2]	
<b>(c)</b>	Use trolley / rollers / wheels. [1] / Apply lubricant on the surfaces. [1]	