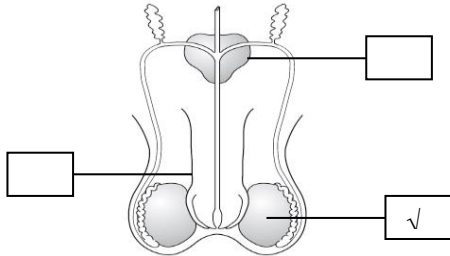
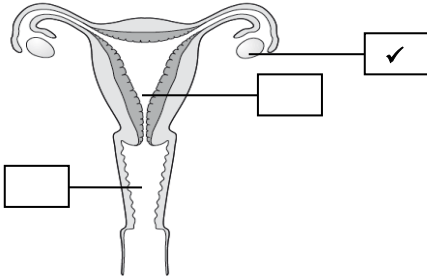


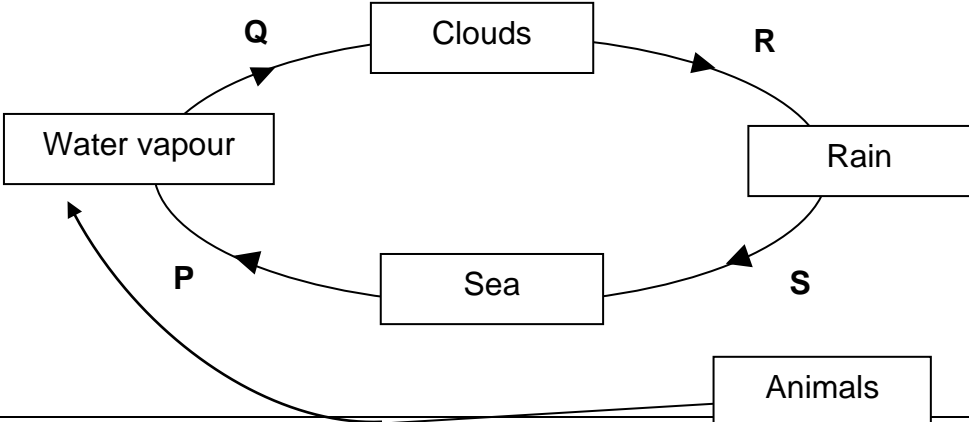
ERC 2023
P6 Foundation Science
Answer Key
Section A

Question	Ans
1.	(3)
2.	(1)
3.	(2)
4.	(3)
5.	(1)
6.	(3)
7.	(1)
8.	(2)
9.	(2)
10.	(2)
11.	(1)
12.	(1)
13.	(2)

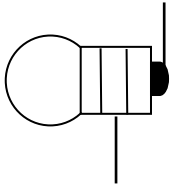
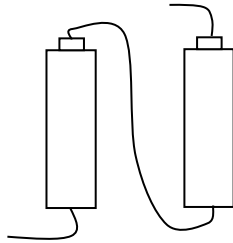
Question	Ans
14.	(3)
15.	(1)
16.	(3)
17.	(3)
18.	(2)

Section B

Qn	Acceptable Answers	Marks				
19	<p>Concept: Classify organisms based on reproduction</p> <table><tr><th>Reproduce from spores</th><th>Reproduce from seeds</th></tr><tr><td>A C</td><td>B</td></tr></table> <p>3 correct – 2m 2 correct – 1m 1 correct – 0m</p>	Reproduce from spores	Reproduce from seeds	A C	B	2
Reproduce from spores	Reproduce from seeds					
A C	B					
20 a	<p>Concept: State fertilisation and name the parts</p> <p>fertilisation</p>	1				
b	<div><p>male</p></div> <div><p>female</p></div>	½ each				
21 a b c	<p>Concept: Identify populations</p> <p>habitat</p> <p>3</p> <p>4</p>	1 1 1				

Qn	Acceptable Answers	Marks						
22	<p>Concept: compare the functions of parts of land & water plant</p> <table><tr><th>Function</th><th>Part(s)</th></tr><tr><td>To make food</td><td>A, B</td></tr><tr><td>To hold the plant firmly</td><td>C</td></tr></table> <p>3 correct – 2m 2 correct – 1m 1 correct – 0 m</p>	Function	Part(s)	To make food	A, B	To hold the plant firmly	C	
Function	Part(s)							
To make food	A, B							
To hold the plant firmly	C							
23	<p>Concept: Properties of materials</p> <p>(i) Waterproof</p> <p>(ii) Flexible / can bend</p>	<p>1</p> <p>1</p>						
24	<p>Concept: State the processes in water cycle</p> <p>a Evaporation</p> <p>b </p>	<p>1</p> <p>1</p> <p>1</p>						

Qn	Acceptable Answers	Marks
25	Concept: Compare respiratory system in plants and human	
a	respiratory	1
b	Z	1
c	water vapour or carbon dioxide	1
26	Concept: Read the table and state the relationship	
(a)	As the number of leaves increases, the amount of water taken in by the plant increases.	1m
	Plant S, it has the most number of leaves to carry out photosynthesis	1m
27	Concept: Interpret the information and infer soil with least air spaces	
(a)	Allow water to pass through / not waterproof	1m
(b)	To prevent the soil from falling through	1m
(c)	Soil Z	1m

Qn	Acceptable Answers	Marks
(d)	The roots will absorb the water and less water will flow through	1m
28 (a)	<p>Concept: Connect a circuit</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <p>½ m for connecting to bulb</p> <p>½ m each for connecting + to - batteries</p> <p>½ m for connecting the sound and switch</p>	2m
(b)	The brightness of the bulb decreases	1m
29 (a)	Concept: Electromagnet attracts the iron pins decrease	1m
(b)	<p>Rod becomes an electromagnet (½ m)</p> <p>Attracts the iron pins (½ m)</p>	1m
(c)	Electromagnet not strong to attract any more iron pins	1m
(d)	Increase the number of batteries	1m

Qn	Acceptable Answers	Marks								
	Or Increase the number of turns on the rod									
30 (a)	Concept: Fair test in an experiment <table><tr><th>Variables</th><th>Tick (✓)</th></tr><tr><td>Distance between torch and material</td><td>✓</td></tr><tr><td>Types of material</td><td></td></tr><tr><td>Thickness of materials</td><td>✓</td></tr></table>	Variables	Tick (✓)	Distance between torch and material	✓	Types of material		Thickness of materials	✓	½ m each
Variables	Tick (✓)									
Distance between torch and material	✓									
Types of material										
Thickness of materials	✓									
(b)	Concept: Light should be from torch The datalogger will capture light from the room and not from the torch only	1m								
(c)	Conduct experiment in a dark room	1m								
(d)	R, least amount of light can pass through so that can show image on screen	1m								