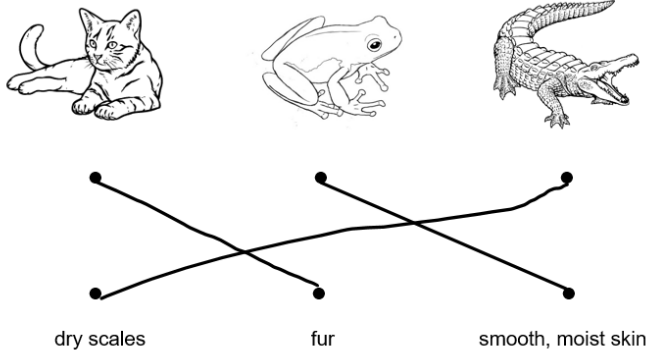
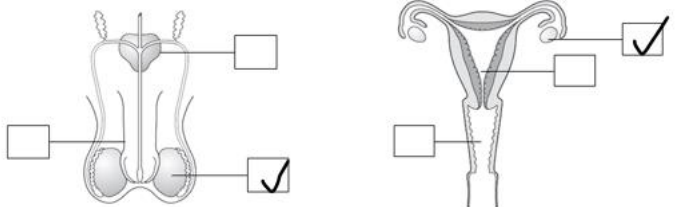


**ERC FSc 2025
Answer Key**

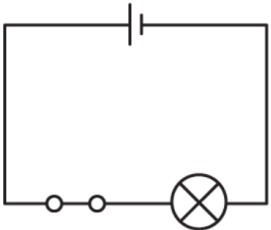
Section A (2 x 18 = 36 marks)

Question	Answer	Question	Answer
1.	1	11.	2
2.	1	12.	3
3.	3	13.	3
4.	3	14.	1
5.	3	15.	3
6.	3	16.	2
7.	3	17.	1
8.	3	18.	1
9.	3		
10.	2		

Section B (30 marks)

Qn	Acceptable Answers	Marks	Remarks																
21	Concept: Outer covering of different animal groups																		
	 <p>dry scales fur smooth, moist skin</p>	3	1m each																
22	Concept: Air is a mixture of gases																		
(a)	<table border="1"> <thead> <tr> <th></th><th>oxygen</th><th>nitrogen</th><th>carbon dioxide and other gases</th></tr> </thead> <tbody> <tr> <td>A</td><td>✓</td><td></td><td></td></tr> <tr> <td>B</td><td></td><td></td><td>✓</td></tr> <tr> <td>C</td><td></td><td>✓</td><td></td></tr> </tbody> </table>		oxygen	nitrogen	carbon dioxide and other gases	A	✓			B			✓	C		✓		3	1m each
	oxygen	nitrogen	carbon dioxide and other gases																
A	✓																		
B			✓																
C		✓																	
23	Concept: Sexual Reproduction of humans																		
(a)		2	1m each																

Qn	Acceptable Answers	Marks	Remarks
(b)	Fertilisation occurs when the sperm fuses with an egg.	1m	
24	Concept: Food Chain		
(a)	The population of organism decreases if there is a shortage of <u>food</u> .	1m	
(b)	When the population of the predator <u>decreases</u> due to a disease, the population of its prey will <u>increase</u> .	1m each	
(c)	Camouflage helps a predator to <u>hunt</u> its prey.	1m	
25	Concept: Property of materials		
(a)	Strength	1m	
(b)	No, paper is <u>not waterproof</u> unlike plastic.	1m	Claim must be correct.
26	Concept: Electric Circuit and Circuit Diagram		
(a)	The closed switch forms a <u>closed circuit to allow electricity to flow through.</u>	1m	

Qn	Acceptable Answers	Marks	Remarks
(b)		2	<ul style="list-style-type: none"> • 1m for correct symbols • 1m for correct connection
27	Concept: Properties of Matter		
	a) volume b) shape	2	1m each
28	Concept: Changes in states of matter in the water cycle.		
(a)	0 °C	1	
(b)	clouds	1	
(c)	Water in the glass tank <u>gain heat and evaporates into water vapour</u> [1] Water vapour comes into <u>contact with the cooler surface of the plastic sheet, loses heat and condenses</u> into water droplets.[1] Water droplets will drip into the basin.	2	

Qn	Acceptable Answers	Marks	Remarks
29	<i>Concept: Properties of Magnets</i>		
(a)	The like poles of Magnet X and Y are facing each other.	1	
(b)	Magnet X is now heavier and Magnet Y cannot repel it as much	1	
30	<i>Concept: Electromagnet</i>		
(a)	Decrease	1	
(b)	Some of the iron pins will be attracted to the electromagnet.	1	
31	<i>Concept: Property of Light</i>		
(a)	Light travels in a straight line.	1	
(b)	Lower <u>both</u> the light sensor and the light source	1	

Qn	Acceptable Answers	Marks	Remarks
32	Concept: Heat Conduction		
(a)	Material A is a better conductor of heat than Material B	1	
(b)	1. Size of rod 2. starting temperature of rods	2	1m each
(c)	Heat is a form of energy but temperature is a measurement of the degree of hotness of an object	1	