Natural Sciences and Technology · Grade 5

Memorandum · Term 1

TOTAL
53
MARKS

Marking guidelines

1. Award the full mark for a correct answer, even if the learner words it differently.
2. Accept any scientifically correct answer, including one not given in the memorandum.
3. Where a question asks for two or more items, award one mark per correct item.
4. For diagrams, award the mark if the label points at the correct part, even with a spelling error.
5. Do not deduct marks for spelling unless the word takes on a different scientific meaning.

Question	Answer	Marks	Marking note
QUESTION 1 · Multiple choice · 5 marks			
1.1	c. The stem	**1**	
1.2	a. An omnivore	**1**	
1.3	b. Photosynthesis	**1**	
1.4	c. A chicken	**1**	
1.5	a. egg → tadpole → frog	**1**	
QUESTION 2 · Matching · 4 marks			
2.1	1 = B (vertebrate); 2 = D (invertebrate); 3 = E (habitat); 4 = A (ecosystem)	**4**	*1 mark each.*
QUESTION 3 · Short questions · 3 marks			
3.1	Food; medicine; wood for building and furniture; oxygen to breathe; fibres for clothing (e.g. cotton); firewood.	**3**	*Any three. 1 mark each.*
QUESTION 4 · Plants and photosynthesis · 9 marks			
4.1	A = flower; B = leaf; C = stem; D = roots	**4**	*1 mark each.*
4.2	Sunlight, water and carbon dioxide (air).	**3**	*1 mark each.*

Question	Answer	Marks	Marking note
4.3	The leaves turn yellow and limp and the plant eventually dies, because without sunlight it cannot carry out photosynthesis and so cannot make food.	**2**	*1 mark for what happens, 1 mark for the explanation.*
QUESTION 5 · Animals and adaptations · 9 marks			
5.1	Kudu = herbivore; Leopard = carnivore; Baboon = omnivore	**3**	*1 mark each.*
5.2	For example: thick fur keeps it warm in the cold; colour lets it hide from predators; strong paws for digging; a long neck to reach high leaves; gills to breathe under water; a hard shell for protection.	**4**	*1 mark per adaptation WITH a reason.*
5.3	This is camouflage. The animal blends into its background so that predators cannot see it — or so that it can stalk prey without being seen.	**2**	*1 mark for camouflage, 1 mark for the purpose.*
QUESTION 6 · Food chains · 8 marks			
6.1	Block 2 = grass or a plant. Block 4 = a lion, jackal or other carnivore.	**2**	*1 mark each.*
6.2	Makes its own food = the producer (plant). Eats other animals = the consumer/predator (carnivore).	**2**	*1 mark each.*
6.3	The herbivores have nothing to eat and will die or move away. After that the carnivores have nothing to hunt, and the whole chain collapses.	**2**	*1 mark for the herbivores, 1 mark for the carnivores.*
6.4	E.g. seaweed (algae), then a small fish, then a big fish, then a seal (or a shark).	**2**	*1 mark for starting with a plant (seaweed or algae); 1 mark for four sensible links with arrows pointing towards the eater.*
QUESTION 7 · Living, non-living and once living · 8 marks			
7.1	Arum lily = living; Stone = non-living; Dry log = once living (it comes from a tree that has died); Grasshopper = living	**4**	*1 mark each.*
7.2	They grow; they feed; they breathe; they reproduce; they move; they respond to their surroundings; they excrete waste.	**3**	*1 mark each.*
7.3	It is made of wood, and wood comes from a tree that was once alive.	**1**	

Question	Answer	Marks	Marking note
QUESTION 8 · Skeletons and life cycles · 7 marks			
8.1	It gives the body its shape and supports it; it protects organs such as the brain and heart; it helps the body to move.	**2**	*1 mark each.*
8.2	An endoskeleton is inside the body (e.g. a human, dog or fish). An exoskeleton is a hard shell on the outside (e.g. a beetle, crab or grasshopper).	**3**	*1 mark for the difference, 1 per correct example.*
8.3	1 = egg; 2 = caterpillar; 3 = pupa; 4 = butterfly	**2**	*1 mark if the first two are correct, 1 if the last two are correct.*

Total **53 marks**



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