

GAUTENG DEPARTMENT OF EDUCATION PROVINCIAL EXAMINATION NOVEMBER 2019 GRADE 6

NATURAL SCIENCES AND TECHNOLOGY

MARKING GUIDELINES

4 pages

SECTION A (COMPULSORY)

QUESTION 1

1.1 1.1.1 B√

1.1.2 D√

1.1.3 C√

1.1.4 A√

1.1.5 C√

 (5×1) (5)

QUESTION 2

2.1 coal√

2.2 radio telescopes√

2.3 watts√

2.4 metal spoon√

2.5 planets√

 (5×1) (5)

QUESTION 3

3.1 C√

3.2 A√

3.3 E√

3.4 B√

3.5 D√

 (5×1) (5)

QUESTION 4

4.1 asteroids√

4.2 rotation√

4.3 new moon√

4.4 conductors√

4.5 water√

 (5×1) (5)

TOTAL SECTION A: 20

SECTION B

QUESTION 5

5.1	5.1.1	A B C	bulb√ open switch√ battery√	(1) (1) (1)	
	5.1.2	not produce light√			
	5.1.3	.3 The switch is open / circuit is not complete√			
5.2		ctor – pin ✓ tor – eraser✓			
5.3	5.3.1	Proce	electrical energy from mains√ ess: electric charges move through circuit and changes to heat√ at: heat that warms the water in the kettle√	(3)	
	5.3.2			°(1) [11]	
QUE	ESTION			(1)	
6.1	Illegal connections ✓				
6.2	Peop	le can get hurt or even die ✓			
6.3	Switch off lights / appliances not in use / make use of solar geysers / use energy saving bulbs / make use of natural light / wear warm clothes / do not use stove plates on highest settings/boil only enough water ✓ Any relevant answer				
6.4	maintenance of coal mines / transport / power stations / cables / substations wiring√ Any relevant answer				

Marking Guidelines

QUESTION 7

7.1	7.1.1	ellipse✓	(1)			
	7.1.2	Mars and Jupiter ✓ (both names correct for 1 mark)	(1)			
	7.1.3	there are large quantities of iron oxide (rust) present on the surface \checkmark	(1)			
	7.1.4	Neptune√, it is the furthest planet from the sun ✓	(2)			
	7.1.5	the sun√	(1)			
7.2	7.2.1	revolution ✓	(1)			
	7.2.2	night and day√	(1)			
	7.2.3	365 ½ days√	(1)			
	7.2.4	full moon√	(1)			
	7.2.5	a year that has 366 days√	(1) [11]			
QUESTION 8						
8.1	8.1.1	South Africa Large Telescope√	(1)			
	8.1.2	Square Kilometre Array√	(1)			
8.2	Suthe	erland√				
8.3	to hel	to help humans to explore other objects in space more closely				
		TOTAL SECTION B:	30			
		GRAND TOTAL:	50			