

# GAUTENG DEPARTMENT OF EDUCATION PROVINCIAL EXAMINATION JUNE 2019

**GRADE 6** 

NATURAL SCIENCE AND TECHNOLOGY

**MEMORANDUM** 

5 pages

MEMORANDUM	NATURAL SCIENCE AND	
	TECHNOLOGY	GRADE 6

## GAUTENG DEPARTMENT OF EDUCATION PROVINCIAL EXAMINATION

#### **NATURAL SCIENCE AND TECHNOLOGY**

#### **MEMORANDUM**

SEC1	SECTION A		
QUES	STION 1	MARKS	
1.1	В	1	
1.2	A	1	
1.3	D	1	
1.4	A	1	
1.5	С	1	
1.6	В	1	
1.7	Α	1	
1.8	С	1	
1.9	D	1	
1.10	A	1	
		10	
QUES	STION 2		
2.1	E	1	
2.2	D	1	
2.3	A	1	
2.4	G	1	
2.5	В	1	
		5	

MEMORANDUM	NATURAL SCIENCE AND	
	TECHNOLOGY	GRADE 6

QUESTION 3	MARKS
3.1 Preserving	1
3.2 Immune system	1
3.3 Solubility	1
3.4 Purification	1
3.5 Crystallisation	1
	5

QUESTION 4	
4.1 4.1.1 Sunlight	1
4.1.2 Air (Oxygen and carbon dioxide)	1
4.1.3 Water and air	1
4.2 Plants / Reeds / Trees / flowering plants	1
4.3 Fish / Crocodiles / Frogs / Crabs, earthworms, etc. (Any animal that may found in river ecosystem)	1
	5
SECTION A:	25

SECTION B	
QUESTION 5	MARKS
5.1	
5.1.1 Suspension / Heterogeneous	1
5.1.2 Solution / Homogeneous	1
5.1.3 Cloudy	1
5.1.4 Uniform	1
5.1.5 Insoluble	1
5.1.6 Soluble	1
5.1.7 Filtration	1
- 10 - 11 - 11 - 11 - 11 - 11 - 11 - 11	
5.1.8 Evaporation / Crystallisation	1
	8

MEMORANDUM	NATURAL SCIENCE AND	
	TECHNOLOGY	<b>GRADE 6</b>

5.2	
Step 1: E – Cut or slice the meat into thin strips.	1
Step 2: F – Mix up the salt and spices with vinegar to form a rubbing mixture.	1
Step 3: G – Rub the spice mixture into the strips of meat.	1
Step 4: A – Hang the meat in a cool, dry place.	1
Step 5: C – Cover it up with a net to keep the bugs and flies away.	1
Step 6: B – Taste after 4-5 days to determine if your biltong is dry or still moist.	1
Step 7: D – Pack it in containers for future use.	1
	7
5.3	
5.3.1 <b>Pickling</b> : Using vinegar to make foods last longer	1
5.3.2 <b>Drying / Dehydrated</b> : Removing all water / moisture from food to make it last longer	1
5.4 Chemicals like chlorine are added to the water to kill any surviving germs, so the water becomes <b>healthy</b> for drinking.	1
	3
SECTION B:	18

SEC	SECTION C		
QUESTION 6		PUNTE	
6.1			
	6.1.1 Causes of anaemia: Shortage of iron in the diet.	1	
	6.1.2 Symptoms of anaemia: Feel tired, pale skin and dry nails.	1	
	6.1.3 Causes of rickets: Lack of calcium or vitamin D in the body.	1	
	6.1.4 <b>Symptoms of rickets:</b> Weak and soft bones, skeleton does not grow properly.	1	
6.2	Glucose is important for an athlete because it provides a lot of energy.	1	
6.3	If you add more solvent to a saturated solution, the solution will be <b>diluted</b> and become unsaturated.	1	
6.4	Water pollution can be caused by:	1	
	Insoluble substances such as oil and plastic.		
	<ul> <li>Soluble substances such as soaps and fertilisers.</li> </ul>		
	Germs from toilet waste / human waste.		
	SECTION C:	7	
	TOTAL:	50	

MEMORANDUM	NATURAL SCIENCE AND	
	TECHNOLOGY	<b>GRADE 6</b>

#### **NATURAL SCIENCE AND TECHNOLOGY**

### ASSESSMENT FRAMEWORK

**GRADE 6** 

2019

**JUNE EXAM** 

**DURATION: 1 hour / 30 minutes** 

SECTION A	MARKS
QUESTION 1: MULTIPLE-CHOICE QUESTIONS	10
QUESTION 2: MATCHING ITEMS	5
QUESTION 3: ONE WORD ANSWERS	5
QUESTION 4: IDENTIFYING THINGS	5
TOTAL:	25
SECTION B	
QUESTION 5	
5.1: COMPARING	8
5.2 RE-ARRANGING	7
5.3 COMPARING	3
TOTAL:	18
SECTION C	
6.1 Causes of disease and symptoms	4
6.2 – 6.4 Reasons / Predictions	3
TOTAL:	7
TOTAL:	50