



TOM NEWBY SCHOOL
GRADE 7 NS - JUNE 2021
MEMORANDUM



QUESTIONS	ANSWERS	MARK	LEVEL
SECTION A		[15]	
QUESTION 1			
1.1	Substance with a sour taste that feel rough on the skin. ✓ ✓	2	2
1.2	Substances with a bitter taste that feel slippery. ✓ ✓	2	2
1.3	A substance that eats through material and burns the skin. ✓ ✓	2	2
1.4	A substance that is not acid or a base. ✓ ✓	2	2
1.5	Dyes that change colour in acids and bases ✓ ✓	2	2
QUESTION 2			
1	E ✓	1	1
2	A ✓	1	1
3	C ✓	1	1
4	B ✓	1	1
5	D ✓	1	1
SECTION B		[25]	
QUESTION 3			
3.1.1	The plastic will melt when it gets too hot. ✓	1	2
3.1.2	Glass will break when cutting through something hard. ✓	1	2
3.1.3	If the particles are too small, it will fall through. ✓	1	2
3.1.4	Road will get too hot and will be too slippery for rubber tyres. ✓	1	2
3.1.5	Too hard and too heavy. ✓	1	2
3.2.1	Ice melts – 0 degrees Celsius and water boils at 96 degrees Celsius in JHB. ✓ ✓	2	1
3.2.2	1. Separation by hand sorting ✓ 2. Separation by sieving or filtration ✓ 3. Separation with the use of a magnet ✓	10	5

	4. Separation by evaporation ✓ 5. Separation by distillation ✓ 6. Chromatography ✓ For explanations see page 9-11 in E-notes.		
3.2.3	It is a homogeneous mixture which means that two substances are mixed to create a mixture that is in a single phase, i.e., liquid. ✓ ✓	2	2
3.2.4	A Liebig Condenser collects the substance that is being evaporated during separation by distillation. ✓ ✓	2	3
3.2.5	Chromatography – a method used to separate a mixture in which different parts of the mixture move at different speeds through a medium. Example: Ink on a filter paper. ✓ ✓	4	5
SECTION C		[15]	
QUESTION 4			
4.1	Vinegar – Acid ✓ Washing powder – Base ✓ Sugar – Neutral ✓ Salt – Neutral ✓ Bleach – Base ✓ Lemon juice – Acid ✓ Toothpaste - Base ✓	7	3
4.2	Hydrochloric acid ✓	1	3
4.3	HCl helps break down the food for digestion. ✓ Your stomach has a mucous lining which helps protect it from strong acid. ✓	2	4
QUESTION 5			
5.1	Bleach ✓	1	1
5.2	The pH scale measures how strong an acid or base is. ✓	2	4
5.3	More than 7 on the PH scale. ✓	1	2
5.4	It can become potentially lethal to inhale when mixed. ✓	1	4
		[25]	

SECTION D			
QUESTION 6			
6.1.1	Puberty is the stage in human development when the human body becomes sexually mature. ✓ ✓	2	2
6.1.2	Fertilisation happens when the sperm cell joins with an egg cell. ✓ ✓	2	2
6.1.3	The process in a woman of discharging blood from the lining of the uterus. ✓ ✓	2	3
6.1.4	The period in which a fetus develops inside a woman's womb or uterus. ✓ ✓	2	3
6.2	<ul style="list-style-type: none"> • Every month, an ovary will release an egg cell for fertilisation. ✓ • This process is known as ovulation. ✓ • After the penis enters the vagina, semen is ejaculated and the sperm cells. ✓ • Then moves through the cervix and uterus into the fallopian tube where the 1st sperm cell to arrive, fertilises the egg. ✓ • The fertilised egg then travels back through the fallopian tubes. ✓ • To attach to the uterus where there is a thick layer of blood known as the uterine lining. ✓ • The woman will then become pregnant, and a baby will develop within the uterus. ✓ 	7	5
6.3	The baby is attached to the mother and will get all the nutrients and other drugs in as what the mother does. ✓ ✓	2	3
6.4	A – Fallopian tubes ✓ B – Ovaries ✓ C – Uterus ✓ D – Cervix ✓ E - Vagina ✓	5	3
6.5.1	Ovaries ✓	1	3
6.5.2	Testis ✓	1	3
6.5.3	Fallopian tubes ✓	1	3
TOTAL		[80]	