MEMORANDUM

NS.TECH- JUNE 2018

SECTION A

QUESTION 1 NOT TICKED

<u>1.1.</u>

1.1.1. A

1.1.2. B

1.1.3. D

1.1.4. C

1.1.5. C

1.1.6. C

1.1.7. B

1.1.8. A

1.1.9. B

1.1.10. B

(10X1=10)

1.2.

1.2.1. Particle

1.2.2. solution

1.2.3. Filter paper

1.2.4.drying

1.2.5. obesity (5x1=5)

1.3

1.3.1. C

1.3.2. B

1.3.3. D

1.3.4. E

1.3.5. A (5X1=5)

SECTION B

QUESTION 2

- 2.1. Sugar (solids) dissolves quicker in hot water (liquids) / sugar dissolves slower in cold water/ high temperature increases rate of solubility 1/2/2
- 2.2. Temperatue OR Time ½
- 2.3. (i) Water ½
 - (ii) Sugar ½
- 2.4. Thermometer for temperature OR Watch/clock for time ½
- 2.5. In a fair test, ALL the factors are kept the same except the one that is tested

for. Accept any logical answer 1/2/2

2.6. To make sure that test is fair and test out the results . Accept any valid answer 1/2/2

2.7.

Temperature (C)	Time to dissolve (seconds)	Time to dissolve (seconds)	Time to dissolve (seconds)	Average time to dissolve.
20	30	29	31	Average time= $\frac{30 + 29 + 31}{3} = \frac{90}{3} = 30$
30	25	26	24	Average time= $\frac{25 + 26 + 24}{3} = \frac{75}{3} = 25$
40	20	21	19	Average Time = $\frac{20 + 21 + 19}{3} = \frac{60}{3} = 20_{\text{VV}}$
50	15	14	16	Average time= $\frac{15+14+16}{3} = \frac{45}{3} = 15_{\text{VV}}$

Not seen in the memo, Other questions are not stated e.g. ques memo.	stion 3,4,5 in the
2.8	
a) 15 min 1/2/2	
b) 4 min 1/2/2	
2.9. slowly ½ temperature ½	[23]
QUESTION 3	
3.1. Carbon dioxide , Chlorophyll, Sunlight, Water 1/2/2/2[Any Three]	
3.2. Carbon dioxide ½	
3.3. Oxygen ½	
3.4. Greenish pigment needed by plants during photosynthesis $\frac{1}{2}$ /2	[7]
QUESTION 4	
4.1. A food web ½	
4.2. A complex food chain made up of many food chains which are interconnected. $1/\!\!\!\! 2/\!\!\!\! 2$	
4.3.1. Tree/ Plants 1/2	
4.3.2.Mouse/ rabbit/ goat ½	
4.3.3. snake/ owl/ wild cat/ jackal/ lion/ kite ½	[6]
QUESTION 5	
5.1.	
5.1.1. Mixture : Consists of more than one substances or different s combined $\frac{1}{2}$	ubstances
5.1.2. Nitrogen, Oxygen, Argon, Carbon dioxide, Other gases 1/2/2/2	/ 2
5.1.3. Nitrogen 1/2/2	

5.1.4. 78% ½	
5.1.5. 20.9% ½	
5.2. Insoluble ½	
5.3. Filtering / Filtration 1/2/2	[13]
QUESTION 6	
6.1 Ice ½	
6.2. Steam / Water vapour 1/2	
6.3. A. Evaporation ½	
B. Melting ½	
C. Freezing/ Solidifying ½	[5]
QUESTION 7	
7.1. Food processing ½ and Transportation ½	
7.2. (i) Make food edible (preparing, cooking) 1/2/2	
(ii) Make food to last longer (preserving) 1/2/2	
7.3. Vitamins ½	[7]

END

TOTAL MARKS:80