

Draft 1 - Johnson

2017



## Science Department Multiple Choice Answer Sheet

Test Topic: Chem 1 Name: Solutions Year: 7

### Multiple Choice – 10 questions.

Circle your choice. If you change your mind, scrub your choice out and circle the one you want. If it is messy, clearly write your choice next to question.

- |     |              |          |          |          |
|-----|--------------|----------|----------|----------|
| 1.  | <del>A</del> | <u>B</u> | C        | D        |
| 2.  | <u>A</u>     | B        | C        | D        |
| 3.  | <u>A</u>     | B        | C        | D        |
| 4.  | <u>A</u>     | B        | C        | D        |
| 5.  | A            | B        | <u>C</u> | D        |
| 6.  | A            | B        | C        | <u>D</u> |
| 7.  | A            | B        | C        | <u>D</u> |
| 8.  | A            | B        | <u>C</u> | D        |
| 9.  | <u>A</u>     | B        | C        | D        |
| 10. | A            | <u>B</u> | C        | D        |

### Written Section:

Write your answers for the written section below. Ask your teacher if you need more paper.

Attached .

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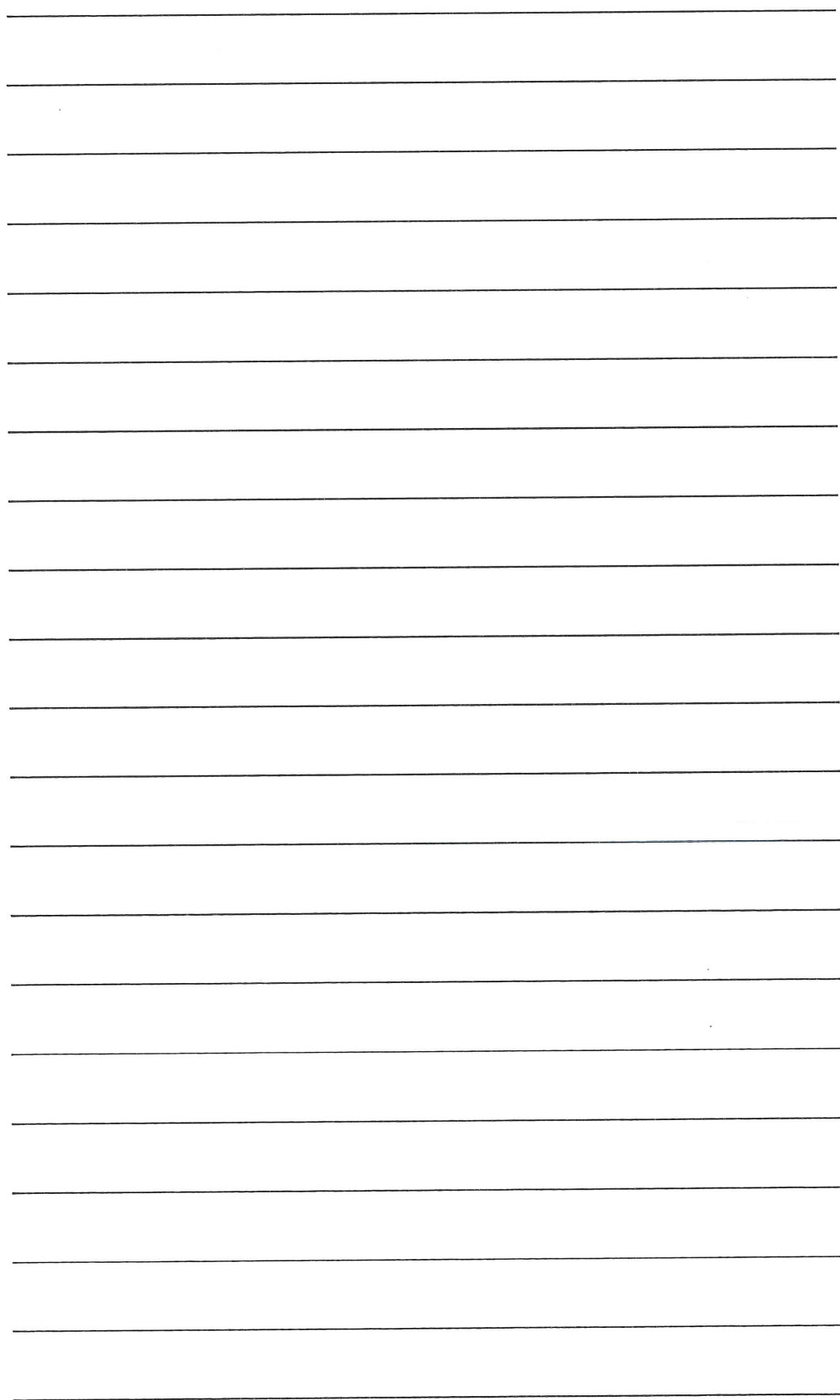
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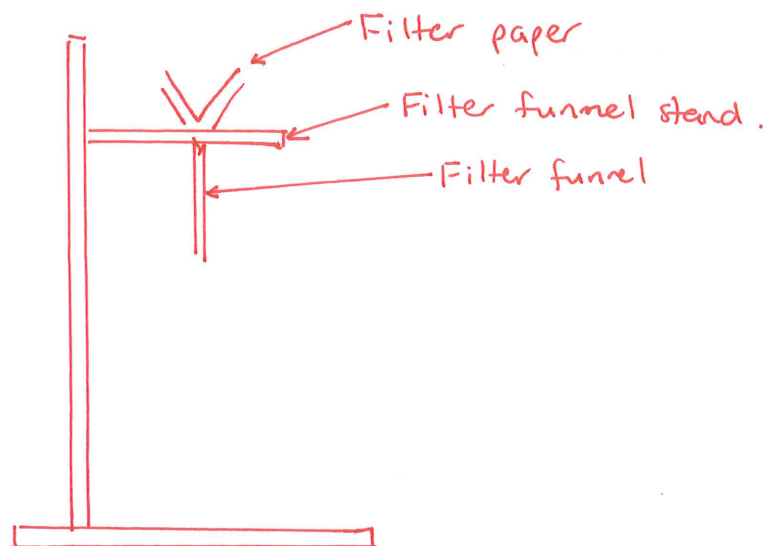
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## SECTION 2: WRITTEN

Write your answers in the spaces on the answer sheet provided.

1. Draw a labelled scientific diagram of the apparatus for **filtration**. (6)



3 × ① drawing  
3 × ① label for each  
⑥ total.

2. Explain **step by step** how you would separate a mixture of sand, sugar and iron filings, so that you could recover each part of the mixture in a relatively pure form. (4)

Must be able to show the recovery of all three.

eg ① Magnetic separation → iron filing -①

② Add water → dissolve sugar -①

③ Filter → sand is the residue -①

④ Crystallise the filtrate to retrieve sugar. ①

④ total

3. Explain what the term "saturated solution" means. (2)

This is when at a given temperature,  
no more solute can be dissolved  
in the solvent. (1)

(2) total

4. Starting with muddy sea water, which separation techniques you would use to end up with

a) clean sea water.

Anything suitable.  
eg Filtration - (1)

b) dry salt.

Anything suitable.  
filtration then evaporation / crystallisation. (1)

c) pure water.

Anything suitable.  
eg: distillation  
reverse osmosis. (1)

(3) total.

(3)

END OF TEST (OUT OF 25 MARKS)