**TYPE:** Science Inquiry

**TASK 11: Extraction of DNA from Strawberry Fruit – Validation Test (18 marks)**

Students are to complete an in-class assessment based on a class experiment done previously. This task will be completed in one session under test conditions.

**Time for the tasks (35 minutes)**

* 5 minutes reading time
* 30 minutes working time

**What you need to do:**

* Follow the instructions provided very carefully to complete the test.
* Draw any results in pencil and answer all questions given.
* It is your responsibility to organise your time effectively.
* There is to be no discussion between you or any of your class mates.
* No sharing of any equipment or answers at all.

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| **Requirements for assessment** | **Due dates:** |
| * Complete all questions | \_**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |

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**STUDENT NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**TEACHER: Ms Burns YEAR: 11**

**DNA Extraction from Strawberry Fruit Practical – Validation Test**

**1.** What was the aim of this investigation?

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(2 marks)

2. Given that safety glasses will be worn to prevent chemicals getting into your eyes, outline (name/description, and purpose ) at

least 4 other laboratory practices (not safety glasses) you need to follow during this practical

|  |  |
| --- | --- |
| Name | Purpose |
|  |  |
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(4 marks)

3. What was the role of the soap/detergent in the buffer solution? Or, why was it used?

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(2 marks)

4.Why was it necessary to crush the strawberry fruit?

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(2 marks)

5. Why did you have to be careful not to over handle the strawberry fruit?

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(2 marks)

6**.** What was the gauze used for?

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(2 marks)

**7.** What happened when an equal volume of ice-cold ethanol was placed on the filtered strawberry fruit solution? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(2 marks)

8. What is the name – full words - of the substance collected at this stage? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(2 marks)

**END OF VALIDATION TEST**