



**Apex Examination
Council**

APEX EXAMINATION COUNCIL

PRE-REGISTRATION EXAMINATION

S.2 CHEMISTRY 545

Time: 1 hour

INSTRUCTIONS

- Attempt all questions

1. Peter's father died before completing the construction of their house. Mainly doors and windows are missing, so Peter is in the process of making good and strong window and door frames for this house without affecting the environment. He is aware that there are various materials on the market for making window and door frames. He also knows that in order for one to produce good quality frames and windows; he should select the right material with suitable qualities and properties. However, he is still confused with the choice and has approached you for some advice.

Task;

Use your chemistry knowledge to:

a) Explain

I. The categories of the materials.

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ii. The suitability of the materials.

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b) Advise Peter on the choice of the materials.

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2. A farmer in a village always keeps his garden tools outside after work. After some time, his tools developed a brown coating. And he was disturbed what happened.

a) As a chemistry student point out the environmental factors that led his tools to develop the brown coating

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b) State the properties of the environmental factors listed above

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(C) What are the uses of the environmental factors listed above?

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D). what are the effects of the brown coating and how can it be solved?

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END