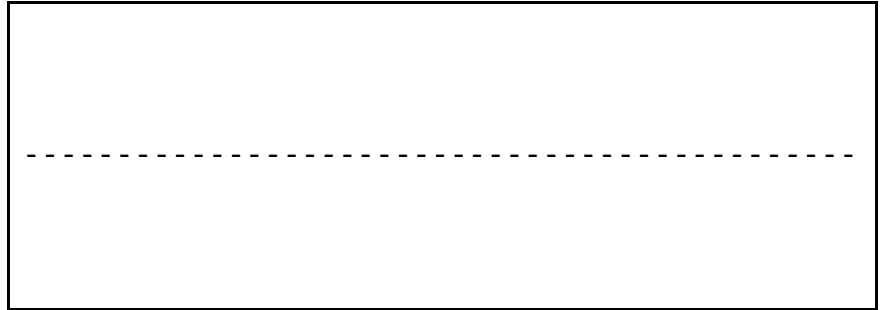


GATE Questions

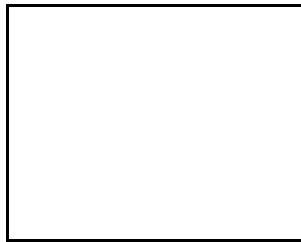
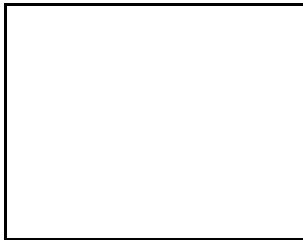
All answers in complete, well written sentences.

1. What features of the element carbon allow it to form the “backbone” of such a varied array of different compounds?

2. Draw an example of a saturated and an unsaturated hydrocarbon. Explain how you know the differences between them.



3. Draw and name the 3 main types of carbon bonds found in living things.



4. Starch and cellulose are both complex carbohydrates, explain how they are both related to sugars and why the human body treats them differently.

5. Glucose and fructose are both simple carbohydrates with the formula $C_6H_{12}O_6$. What else do you need to know about glucose and fructose to decide if they should be considered different compounds?

6. DNA is considered the blueprint for life. What exactly is it the blueprint of? Explain how it works.
