

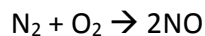


20. **Assertion:** Nitrogen and Oxygen are the main components in the atmosphere but these do not react to form oxides of nitrogen.

Reason: The reaction between nitrogen and oxygen requires high temperature.

- (1) Both assertion and reason are correct, and the reason is the correct explanation for the assertion
- (2) Both assertion and reason are correct, but the reason is not the correct explanation for the assertion
- (3) The assertion is incorrect, but the reason is correct
- (4) Both are assertion and reason are incorrect

Answer: Nitrogen is highly stable does not reacts with oxygen at atmospheric temperature. When electric spark during thunderstorm happens at about 3000°C they combine to form Nitric Oxide(NO).



Correct option is (1) Both assertion and reason are correct, and the reason is the correct explanation for the assertion