

# Friction

- **Friction opposes** relative motion or tendency of motion between contacting surfaces.
- **Friction is a contact force** and depends on surface nature and normal reaction.
- **Static friction** adjusts its value up to a maximum limit.
- **Limiting friction** acts at the verge of motion and equals  $\mu N$ .
- **Sliding friction** is less than limiting friction.
- **Rolling friction** is the least among all types.
- **Friction opposes motion**, not applied force.
- Friction converts **mechanical energy into heat**.
- **Lubrication and rolling** reduce friction.
- **$\mu$  depends on surface nature**, not mass or area of contact.


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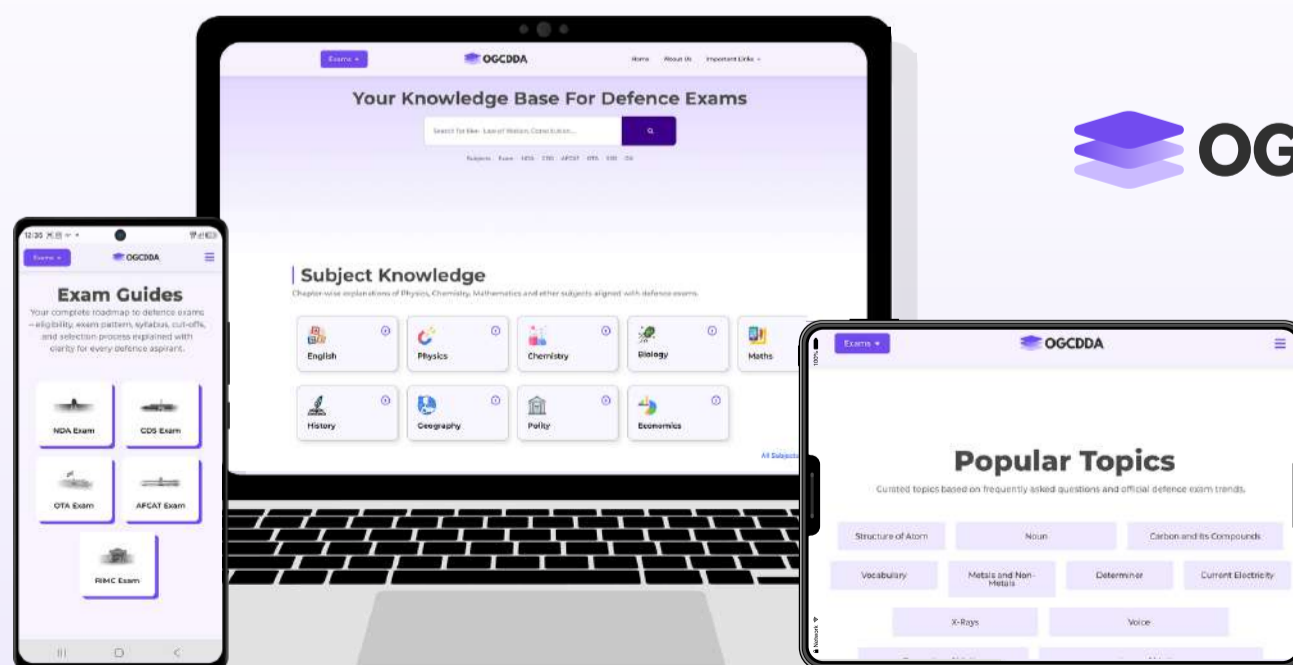
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