

**20** A wire is being stretched by a tensile force.

Which statement about the elastic limit **must** be correct?

- A** The deformation is plastic after the elastic limit has been reached.
- B** The deformation is plastic until the elastic limit is reached.
- C** The extension is proportional to the tensile force after the elastic limit has been reached.
- D** The extension is proportional to the tensile force until the elastic limit is reached.

**21** Which statement is not correct? The force  $F$  is applied to a wire of length  $L$  and cross-sectional area  $A$ .