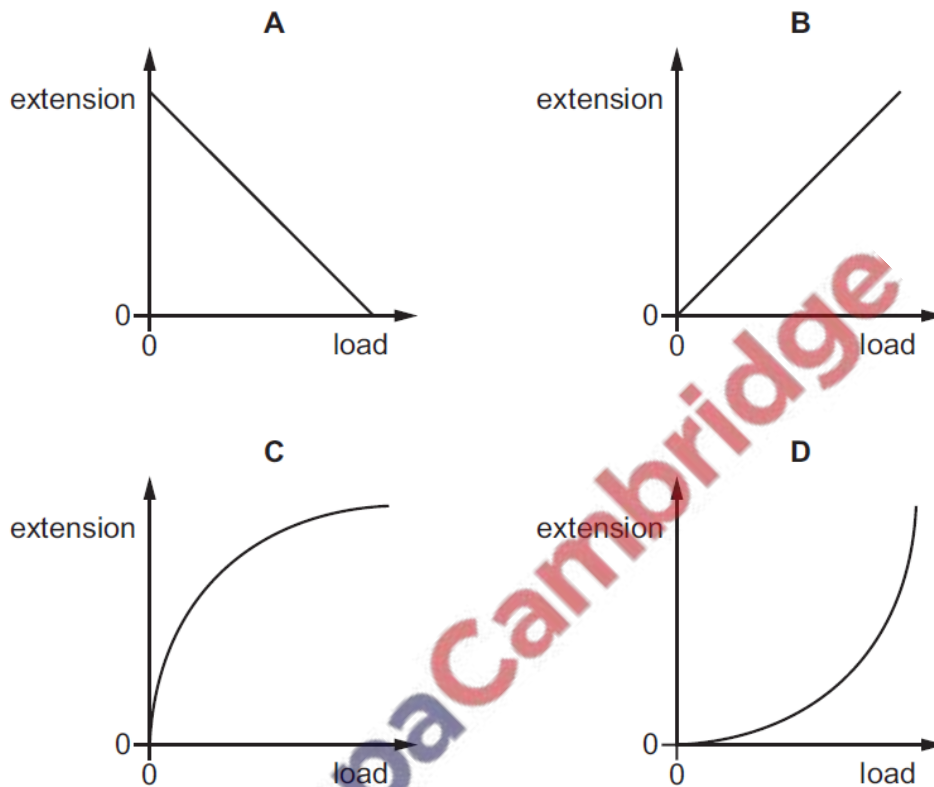


1. Nov/2021/Paper_11/No.7

The extension of a spring is measured for various loads. The limit of proportionality is not reached.

Which graph shows the extension–load graph for the spring?



2. Nov/2021/Paper_12/No.9

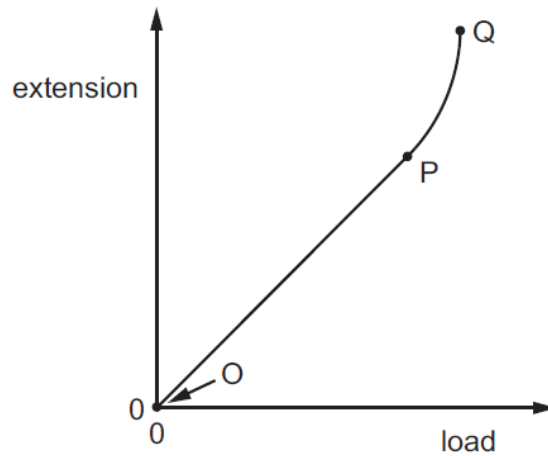
A metal wire is stretched by a force F up to the limit of proportionality.

Which statement describes what happens when F is increased slightly?

- A** The wire breaks.
- B** The wire continues to extend but not in direct proportion to F .
- C** The wire continues to extend in direct proportion to F .
- D** The wire does not extend any further.

3. June/2021/Paper_11/No.9

Where on the graph is the limit of proportionality for an elastic solid?



- A between O and P
- B at P
- C between P and Q
- D at Q

4. June/2021/Paper_12/No.11

A weight of 2.0 N is hung from a spring. The extension produced is 6.0 cm. The 2.0 N weight is removed and an 8.0 N weight is hung from the spring. The spring does not pass its limit of proportionality.

What is the new extension of the spring?

- A 6.0 cm
- B 24 cm
- C 36 cm
- D 48 cm