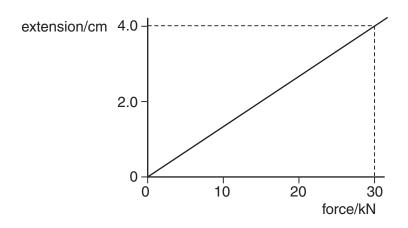
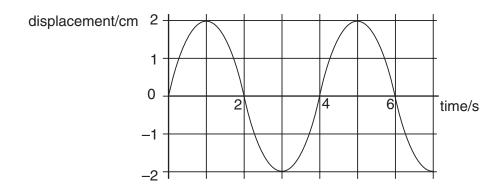
- 21 What is the Young modulus of a metal?
 - A extension / force
 - **B** force/extension
 - C strain/stress
 - **D** stress/strain
- 22 The graph shows how the extension of a spring varies with the force used to stretch it.



- What is the strain energy stored in the spring when the extension is 4.0 cm?
- **A** 60 J
- **B** 120 J
- **C** 600 J
- **D** 1200 J
- 23 The graph shows how the displacement of a particle in a wave varies with time.



Which of the following is correct?

- **A** The wave has an amplitude of 2 cm and could be either transverse or longitudinal.
- **B** The wave has an amplitude of 2 cm and must be transverse.
- **C** The wave has an amplitude of 4 cm and could be either transverse or longitudinal.
- **D** The wave has an amplitude of 4 cm and must be transverse.