

Section B

Each of Questions **06** to **30** is followed by four responses, **A**, **B**, **C** and **D**.


For each question select the best response.


Only **one** answer per question is allowed.

For each question, completely fill in the circle alongside the appropriate answer.

CORRECT METHOD

WRONG METHODS

If you want to change your answer you must cross out your original answer as shown. 

If you wish to return to an answer previously crossed out, ring the answer you now wish to select as shown. 

You may do your working in the blank space around each question but this will not be marked.
Do **not** use additional sheets for this working.

06 Mechanical power

[1 mark]

- A** is a vector quantity.
- B** is measured in J.
- C** has base units of $\text{kg m}^2 \text{s}^{-3}$.
- D** can be calculated from force \times distance moved.

07 Water waves of wavelength λ and wave speed v are related by $v = \sqrt{k\lambda}$ where k is a constant.

What is a possible SI unit for k ?

[1 mark]

- A** m s^{-2}
- B** m s^{-1}
- C** $\text{m}^{\frac{3}{2}} \text{s}^{-1}$
- D** $\text{m}^{\frac{1}{2}} \text{s}^{-1}$

Turn over ►



1 1 What quantity is measured in kW h?

[1 mark]

A charge

B current

C energy

D power

Turn over ►



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0 7 Which is approximately equal to 3 kW h?

[1 mark]

A 3×10^3 J

B 1×10^4 J

C 2×10^5 J

D 1×10^7 J

0 8 Which is the shortest distance?

[1 mark]

A 10^{-19} Gm

B 10^{-14} km

C 10^{-4} μ m

D 10^7 fm

