

GM spectrum.....

**GENERAL QUESTIONS FOR PRACTICE**

1. Suggest one reason why on hot day, heat losses in mains electricity transmission lines may generally be greater than on a cold day. (1mk)
2. Why is a gap left between one end of a metal bridge and the end of a road leading to the bridge. (1mk)
3. Why does a person weaving dump clothes feel cold on a strong wind. (2mks)
4. A bullet of mass 0.8g traveling at 400m/s is stopped by a concrete wall. Calculate the amount of heat energy transferred to the wall. (2mks)
5. The figure below shows a uniform metre rule on equilibrium.  
 (i) What is the significance of the word uniform metre rule. (1mk)  
 (ii) Determine the weight of the metre rule. (2mks)



6. An object is projected vertically upwards at a speed of  $15\text{ms}^{-1}$ . How long will it take to return to the same level of projection? (3mks)
7. A boy pulls the handle of a lawn mower at an angle of  $30^\circ$  to the horizontal with a force of 120N. Calculate the work done when the mower moves through a distance of 12.8m. (3mks)
8. State Hooke's law. (1mk)
9. A force of 20N causes a wire to stretch by 40mm. calculate the energy stored on the 100mm wire when stretched 50mm. (3mks)
10. State two ways of increasing the strength of an electromagnet. (2mks)
11. The diagram shows capacitors in parallel connected to 4V battery.



- (i) Calculate the total capacitance. (2mks)
- (ii) What is the energy stored on the capacitors. (3mks)
12. Show that a body falling from a height  $h$  hits the ground with energy  $E = \frac{1}{2}mv^2$  (3mks)
13. (a) State Hooke's law. (1mk)
- (b) A force of 50N stretches a spring by 60mm. what force will extend by 20mm. (3mks)
- (c) Calculate the work required to stretch the spring by 40mm. (3mks)

# O Level Physics Questions And Answers

**B Jennison, J Ogborn**

## **O Level Physics Questions And Answers:**

## Decoding **O Level Physics Questions And Answers**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**O Level Physics Questions And Answers**," a mesmerizing literary creation penned by a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring affect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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