

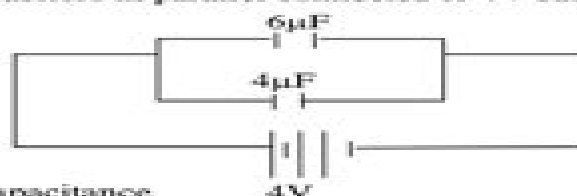
GM spectrum.....

**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 damp 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. (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

**Joacim Rocklöv**



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