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L1-PHYSR





Level 1 Physics, 2015

9.30 a.m. Thursday 19 November 2015

RESOURCE SHEET for 90937, 90938, and 90939

Refer to this sheet to answer the questions in your Question and Answer Booklets.

Check that this sheet is printed on the back.

YOU MAY KEEP THIS SHEET AT THE END OF THE EXAMINATION.

90937 Demonstrate understanding of aspects of electricity and magnetism

$$V = IF$$

$$P = IV$$

$$P = \frac{E}{t}$$

$$V = IR$$
 $P = IV$ $P = \frac{E}{t}$ $R_{\text{\tiny T}} = R_{\text{\tiny 1}} + R_{\text{\tiny 2}} + \dots$

$$B = \frac{k I}{d}$$

$$B = \frac{kI}{d}$$
 $k = 2.0 \times 10^{-7} \text{ T m A}^{-1}$

90938 Demonstrate understanding of aspects of wave behaviour

$$v = \frac{d}{t}$$

$$v = f\lambda$$

$$v = \frac{d}{t}$$
 $v = f\lambda$ $f = \frac{1}{T}$

90939 Demonstrate understanding of aspects of heat

$$Q = mc\Delta T$$
 $Q = mL$ $P = \frac{E}{t}$

$$Q = mL$$

$$P = \frac{E}{t}$$