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**C is the correct answer as power for the whole circuit =  $\mathcal{E} \times I$  and I increases whilst e.m.f. remains the same**

**(1)**

A is not the correct answer as increased intensity increases the number of conduction electrons released by the LDR

B is not the correct answer as the potential difference across the LDR will decrease, causing the potential difference across the resistor to increase

D is not the correct answer as the resistance of an LDR decreases as light intensity increases