29 Which row describes the circumstances under which forces act on a charged particle in a uniform electric field?

	charged particle	direction of force
Α	moving charges only	parallel to the field
В	stationary charges only	perpendicular to the field
С	stationary and moving charges	parallel to the field
D	stationary and moving charges	perpendicular to the field

30 The resistance of a thermistor depends on its temperature, and the resistance of a light-dependent resistor (LDR) depends on the illumination.

Under which conditions will the resistance of both a thermistor and an LDR be highest?

	thermistor	LDR
Α	highest temperature	highest illumination
В	highest temperature	lowest illumination
С	lowest temperature	highest illumination
D	lowest temperature	lowest illumination

31 In terms of energy transfer W and charge q, what are the definitions of potential difference (p.d.) and electromotive force (e.m.f.)?

	p.d.	e.m.f.
Α	$\frac{W}{q}$	$\frac{W}{q}$
В	$\frac{W}{q}$	Wq
С	Wq	$\frac{W}{q}$
D	Wq	Wq

Space for working