IGCSE Physics: **w25 21**

Multiple Choice Answers

Q24: D

IGCSE Physics: **w25 22**

Multiple Choice Answers

Q24: A

Q29: A

IGCSE Physics: **w25 42**

8(a)	region in which a (magnetic) pole experiences a force
8(b)(i)	friction between trolley and track **OR** the (induced) current produces a magnetic field which opposes the (magnetic) field that causes the (induced) current
8(b)(ii)	any **three** from: • direction will (still) be left **OR** there is no change of direction • induced current / emf / voltage does not change direction • smaller deflection • smaller (rate of) change of magnetic field • smaller current / emf / voltage induced (in coil)

IGCSE Physics: **s25 21**

Multiple Choice Answers

Q24: A

IGCSE Physics: **s25 41**

4(a)(i)	convection
4(a)(ii)	warm air rises **OR** less dense air rises
	warm air is less dense (than cool air) ORA
	any **one** from: • cold air replaces warm air • cold air falls and the process repeats owtte • there is a convection current owtte
4(b)(i)	$P = IV$ **OR** $(I =)\ P \div V$
	2.0 kW = 2000 W **OR** $2000 \div 230$
4(b)(ii)	10 (A) **AND** any **one** from: • smaller fuse melts in normal use (of the heater) owtte • smaller fuse stops the heater working (at all) • larger fuse allows too much current (without melting) • larger fuse may not melt before the circuit is damaged • fuse (rating) must be higher than the (normal) current • the fuse will melt if current goes too high owtte
	any **one** from: • 10 (A) • 13 (A) **AND** fuse (rating) must be higher than (normal) current • 13 (A) **AND** 3 A / 5 A fuse melts in normal use owtte

6(a)	any **one** from: • magnetic materials are attracted to magnets • non-magnetic materials are not attracted to magnets • magnetic materials experience a force in magnetic fields • non-magnetic materials don't experience a force in magnetic fields
6(b)	any **one** from: • steel as it stays magnetised • steel makes a permanent magnet
6(c)	N and S poles correctly labelled braille: north to south owtte
6(d)	field lines close(r) indicates strong(er) (magnetic) field owtte ORA

Multiple Choice Answers

Q24: B