Practice Question Set For GCSE
Subject : Physics
Paper-2 Topic: GCSE Triple Science_Forces (Low Demand Questions)

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Name of the Student:_____
Max. Marks : 21 Marks **Time : 21 Minutes**

Mark Schemes

Q1.

(a) $g = \frac{750}{2.5}$

1

g = 300.0 (N/kg)

1

(b) electrostatic

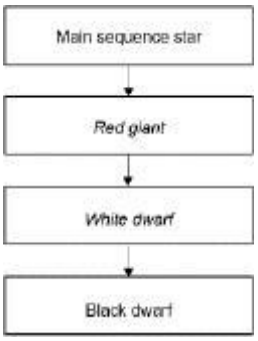
1

(c) red giant

this order only

1

white dwarf



1

(d) Z

reason only scores if Z chosen

1

only stars about the same/smaller size/mass as the Sun become Black dwarfs

allow converse

1

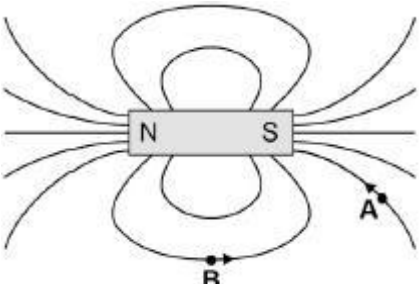
(e) supernova

1

[8]

Q2.

(a) both arrows correct

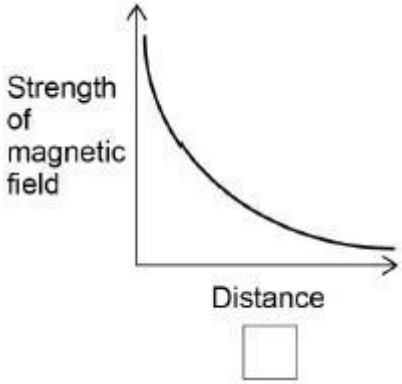


1

(b) a permanent magnet

1

(c) third box ticked



1

any **one** from

- (the only graph) that shows the magnetic field getting weaker (as distance increases)
- both other graphs show the magnetic field getting stronger (as the distance increases)

only scores if correct box is chosen

1

(d) steel cans are attracted to the electromagnet and are transferred to the container (by the conveyor belt)

1

aluminium cans are not attracted to the electromagnet and are left behind on the table

If no other mark scored: Steel cans are attracted (to the electromagnet) but aluminium cans are not – scores one mark

1

(e) raise the height of the table

allow longer legs on the table

allow put a (non-magnetic) box on top of the table

allow lower the electromagnet

1

use a larger potential difference / current

or

use a stronger electromagnet

allow more turns on the coil (of the electromagnet)

*do **not** accept insert a (soft) iron core*

1

(f) distance travelled = speed × time
or
$s = v\,t$

1

(g) $3.3 = 1.7 \times t$

1

$t = \frac{3.3}{1.7}$

1

$t = 1.941$ (s)

1

$t = 1.9$ (s)

allow a calculation using the given data incorrectly but correctly rounded to 2 sig figs

1

[13]