$\underline{Electromagnetism-2019\ June}$

1.

0625/ (a)		J/19/No.9 cribe how to demagnetise a bar magnet using alternating current (a.c.) in a coil.
		[3]
(b)	Fig.	9.1 shows a simple direct current (d.c.) motor.
		d.c. power supply split-ring commutator Coil Fig. 9.1
	(i)	Explain the purpose of the split-ring commutator.
		[3]
	(ii)	The voltage of the power supply is increased.
		State the effect this has on the motor.
		[1]

2. 0625/32/F/M/19/No.11

Fig. 11.1 shows a relay.

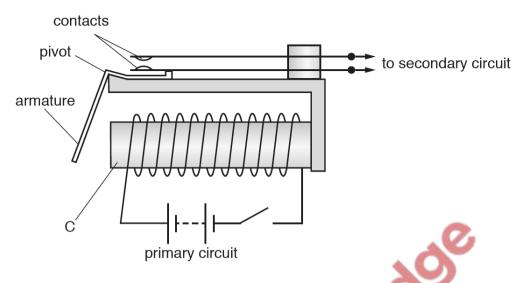


Fig. 11.1

- (a) The statements describe the action of a relay. They are **not** in the correct order.
 - P Current in the coil creates an electromagnet.
 - Q Secondary circuit is completed.
 - R Armature pivots, closing the contacts.
 - S Part C attracts the armature.
 - T The switch in the primary circuit is closed.

Place the statements in the correct order. One has been done for you.



(b) Fig. 11.1 includes the part labelled C, which is made from a metal.

explanation

[2]