

BAHAGIAN A

Arahan: Jawab semua soalan.

Instruction: Answer all questions.

- 1 Antara yang berikut, yang manakah merupakan sumber tenaga?

Which of the following is a source of energy?

- A Bunyi B Air
Sound Water
C Cahaya D Elektrik
Light Electricity

- 2 Antara bentuk tenaga berikut, yang manakah melibatkan tenaga kinetik?

Which of the following forms of energy involves kinetic energy?

- A B



- C D



- 3 Antara daya berikut, yang manakah dihasilkan apabila dua permukaan digosok antara satu sama lain?

Which of the following forces is produced when two surfaces rub against each other?

- A Daya magnet
Magnetic force
B Daya graviti
Gravitational force
C Daya elektrostatik
Electrostatic force
D Daya geseran
Frictional force

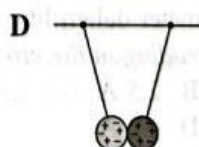
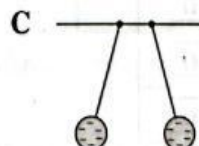
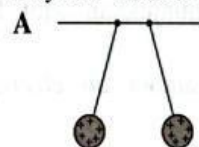
- 4 Apakah jenis magnet yang mempunyai kesan magnet sementara apabila arus elektrik dialirkan melaluinya?

What kind of magnet has a temporary magnetic effect when electricity is passed through it?

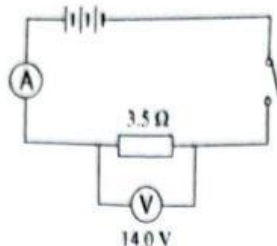
- A Elektromagnet
Electromagnet
B Arah medan magnet
Direction of magnetic field
C Corak medan magnet
Pattern of magnetic field
D Daya elektrostatik
Electrostatic force

- 5 Antara rajah berikut, yang manakah betul menunjukkan keadaan dua biji belon apabila digosok dengan kain bulu?

Which of the following diagrams correctly shows the condition of two balloons when they are rubbed with woollen cloth?



- 6 Rajah di bawah menunjukkan satu litar elektrik.
The diagram below shows an electrical circuit.



Berapakah bacaan ammeter apabila suis dihidupkan?

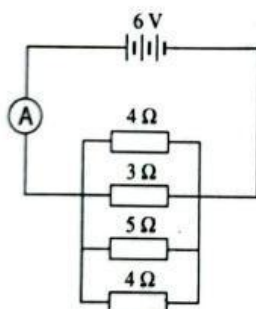
What is the ammeter reading when the switch is turned on?

- A 3.5 A B 4.0 A
C 14.0 A D 49.0 A

- 7 Tiga perintang dengan rintangan $10\ \Omega$, $20\ \Omega$ dan $30\ \Omega$ disambungkan secara bersiri. Berapakah rintangan berkesan yang terhasil?
Three resistors with resistances of $10\ \Omega$, $20\ \Omega$ and $30\ \Omega$ are connected in series. What is the effective resistance produced?

- A $6\ \Omega$
B $20\ \Omega$
C $30\ \Omega$
D $60\ \Omega$

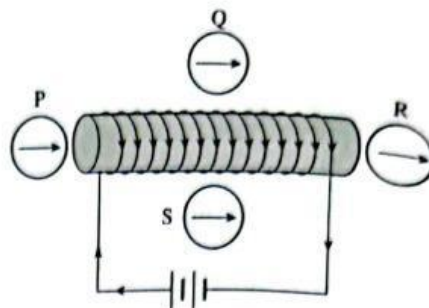
- 8 Rajah di bawah menunjukkan satu litar elektrik.
The diagram below shows an electrical circuit.



Berapakah bacaan ammeter dalam litar itu?
What is the ammeter reading in the circuit?

- A 0.4 A B 2.5 A
C 3.6 A D 6.2 A

- 9 Rajah di bawah menunjukkan kedudukan empat kompas P, Q, R dan S.
The diagram below shows the position of four compasses P, Q, R and S.



Kompas yang manakah menunjukkan pesongan penunjuk yang betul?

Which compasses show the correct deflection of their counters?

- A P dan R
P and R
B P dan S
P and S
C Q dan R
Q and R
D Q dan S
Q and S

- 10 Antara yang berikut, yang manakah merupakan aplikasi elektromagnet dalam kehidupan harian?

Which of the following are the applications of electromagnetism in daily life?

- A Kompas
Compass
B Magnet pada catur
Magnetic chess
C Loceng elektrik
Electric bell
D Magnet peti sejuk
Fridge magnet