1. a) Diagram 10 (i) shows a circuit diagram.
Rajah 10 (i) menunjukkan satu rajah litar.

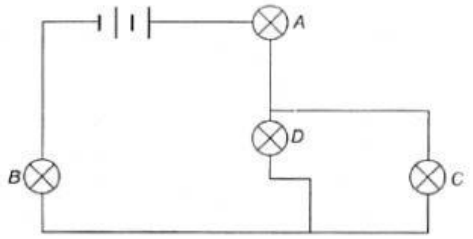

Diagram 10(i) / *Rajah 10(i)*

(i) Which bulb will light up when bulb D is burnt?
Mentol yang manakah akan menyala sekiranya mentol D terbakar?

[2 marks/*markah*]

(ii) Justify your answer in 10 (a)(i).
Wajarkan jawapan anda di 10 (a)(i).

[2 marks/*markah*]

b) Ahmad set up a circuit and he puts two pieces of aluminium foil into a basin as shown in Diagram 10(ii).
Ahmad menyediakan satu litar dan dia meletak kepingan aluminium ke dalam besen seperti yang ditunjukkan dalam Rajah 10(ii).

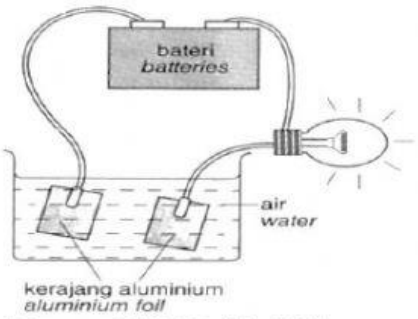

Diagram 10(ii) / *Rajah 10 (ii)*

What will happen to the bulb? Explain why.
Apakah yang akan berlaku kepada mentol? Terangkan mengapa.

[2 marks/*markah*]

c) Diagram 10(iii) shows a series circuit that has two bulbs, P and Q
Rajah 10(iii) menunjukkan satu litar bersiri yang mempunyai dua mentol P dan Q.

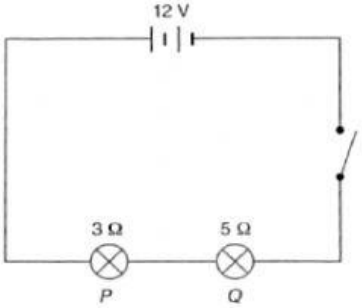

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Diagram 10(iii) / *Rajah 10(iii)*

Calculate / *Hitungkan*

i) total resistance in the circuit *jumlah rintangan litar*	i) current which flows in the circuit *arus yang mengalir dalam litar*

[4 marks/*markah*]

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