

- 6 (a) (i) Define the *capacitance* of a parallel plate capacitor.

.....
.....
..... [2]

- (ii) State **three** functions of capacitors in electrical circuits.

1.
2.
3.

[3]

- (b) A student has available **three** capacitors, each of capacitance $12\ \mu\text{F}$.

Draw diagrams, one in each case, to show how the student connects the capacitors to give a combined capacitance between the terminals of:

- (i) $18\ \mu\text{F}$



[1]

- (ii) $8\ \mu\text{F}$.



[1]