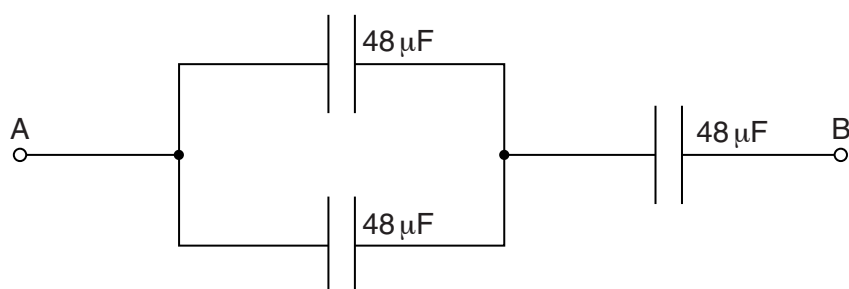


- 6 Three capacitors, each of capacitance  $48\ \mu\text{F}$ , are connected as shown in Fig. 6.1.



**Fig. 6.1**

- (a) Calculate the total capacitance between points A and B.

capacitance = .....  $\mu\text{F}$  [2]

- (b) The maximum safe potential difference that can be applied across any one capacitor is  $6\ \text{V}$ .

Determine the maximum safe potential difference that can be applied between points A and B.

potential difference = .....  $\text{V}$  [2]