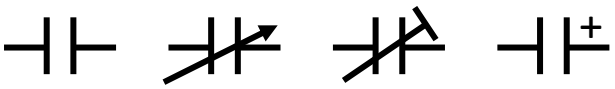
Jules' Workshop

Standard

Unit 7 – QUESTIONS

Q1. What is a capacitor?

Q2. Name the capacitor symbols.



Q3. What are the variables in designing a capacitor?

Q4. What is the total capacitance of these capacitors in series?

C1	C2	C3	C Total
3 mF	10 mF	2 mF	
6 pF	3 pF	1 pF	
6 nF	12 nF	1 nF	

Q 5. What is the total capacitance of these capacitors in parallel?

C1	C2	C3	C Total
3 mF	10 mF	2 mF	
6 pF	3 pF	1 pF	
6 nF	12 nF	1 nF	

Q6 Not required.

Q7 Not required

Q8 Explain in your own words and diagrams, the charging and discharging of a capacitor focusing on the voltage and current.

Q9 What is an inductor?

Q 10 Not required

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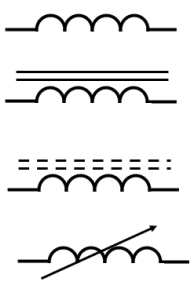
Q11 Identify the following symbols.



Q12 What is the total inductance of these inductors in parallel?

L1	L2	L3	L Total
16 mH	15 mH	21 mH	
16 pH	30 pH	0.1 pH	
60 nH	12 nH	100 nH	

Q13 What is the total inductance of these inductors in series?

L1	L2	L3	L Total
16 mH	15 mH	21 mH	
16 pH	30 pH	0.1 pH	
60 nH	12 nH	100 nH	

Q14 Explain in your own words and diagrams, the charging and discharging of an inductor focusing on the voltage and current.

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