MCQs on Capacitance/Capacitor

	1.	What is the symbol for capacitance?		
	•	a) V		
	•	b) R		
	•	c) C		
	•	d) F		
	2.	What is the unit of capacitance?		
	•	a) Volt		
	•	b) Ohm		
	•	c) Coulomb		
	•	d) Farad		
	3.	Which of the following materials can be used as a dielectric in		
capac	itors?			
	•	a) Metal		
	•	b) Ceramic		
	•	c) Water		
	•	d) Plastic		
•	e) cera	amic and plastic		
	4.	How does increasing the area of the plates in a capacitor affect its		
capacitance?				
	•	a) Increases capacitance		
	•	b) Decreases capacitance		
	•	c) No effect		
	•	d) Changes the resistance		

5. What happens to the current in a circuit when a capacitor is fully charged in a DC circuit?				
	•	a) It continues to flow		
	•	b) It reaches maximum value		
	•	c) It stops flowing		
	•	d) It reverses direction		
	6.	What does the time constant () represent in an RC circuit?		
	•	a) Time required to fully discharge		
	•	b) Time required for 63% charge		
	•	c) Time for the capacitor to lose all charge		
	•	d) Time to reach 99% charge		
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	7.	Which capacitor type is best suited for high-frequency applications?		
	•	a) Mica capacitor		
	•	b) Ceramic capacitor		
	•	c) Electrolytic capacitor		
	•	d) Tantalum capacitor		
	8.	What is the unit for measuring capacitive reactance ()?		
	•	a) Farad		
	•	b) Ohm		
	•	c) Volt		
	•	d) Coulomb		
	9.	What is the dielectric constant of a vacuum?		
	•	a) 0		
	•	b) 1		
	•	c) 100		

	•	d) Infinite
	10.	Which of the following capacitors is polarized?
	•	a) Ceramic
	•	b) Mica
	•	c) Electrolytic
	•	d) Paper oil
сара	11. apacitor?	What is the effect of decreasing the distance between plates in a
	•	a) Decreases capacitance
	•	b) Increases capacitance
	•	c) Increases resistance
	•	d) No effect
	12.	Which type of capacitor is typically used in radio tuning circuits?
	•	a) Tantalum
	•	b) Fixed mica
	•	c) Variable capacitor
	•	d) Electrolytic capacitor
	13.	In an RC circuit, what happens when the switch is closed?
	•	a) The capacitor discharges immediately
	•	b) The capacitor charges to the source voltage
	•	c) The current flow becomes constant
	•	d) The circuit is shorted
ci	14. rcuit?	How are capacitors connected to increase the total capacitance in a
	•	a) In series

- b) In parallel
- c) In sequence
- d) Alternating
- 15. What material is commonly used for electrolytic capacitors' electrodes?
- a) Tantalum
- b) Mica
- c) Metal plates with electrolyte
- d) Barium titanate

Answer Key:

- 1. c) C
- 2. d) Farad
- 3. e) Ceramic and plastic
- 4. a) Increases capacitance
- 5. c) It stops flowing
- 6. b) Time required for 63% charge
- 7. b) Ceramic capacitor
- 8. b) Ohm
- 9. b) 1
- 10. c) Electrolytic
- 11. b) Increases capacitance

- 12. c) Variable capacitor
- 13. b) The capacitor charges to the source voltage
- 14. b) In parallel
- 15. c) Metal plates with electrolyte