Eight Questions and Answers about Capacitors

What is the true power of a capacitor?

The true power in a capacitor is zero. Answer: Option A Q 18. A 12 kHz voltage is applied to a 0.33 uF capacitor,and 200 mA of rms current is measured. What is the value of the voltage? Answer: Option A Q 19. The ohm is the unit of capacitance. Answer: Option B Q 20. When the plate area of a capacitor increases,Answer: Option A Q 21.

What is the capacity of a capacitor?

Answer-12: The capacity of a capacitor is numerically equal to the quantity of chargewhich must be given to the condenser in order to maintain the unit potential difference between the plates. Question-13. On what factors the capacity of a capacitor depends?

What is capacitance of a capacitor?

Capacitance is the ability of a body or a capacitor to hold the charge. Capacitance is denoted by C and it is measured in the unit called Farad. Capacitance C = Q/V,Q - charge stored in the capacitor,V - voltage across the plates. Hence,the capacitance of a capacitor is the ratio of stored charge to the potential difference across the plates.

What is the purpose of a capacitor?

Answer-11: Capacitor is a device for storing charges. It consists if two metal plates placed parallel with a dielectric or an insulating medium in between them. Question-12. Define Capacitance of a Capacitor?

What determines the capacitance of a capacitor?

The capacitance depends upon the area of the plates,dielectric material,and distance between the plates. The capacitance is directly proportional to the relative permittivity of the dielectric medium and the area of the capacitor plate,but inversely proportional to the distance between the plates.

What is capacitor behavior in AC & DC circuits?

Brief the Capacitor behavior in AC and DC circuits. If a DC voltage is applied across a capacitor, the capacitor charges and voltage across it reaches the maximum value which is equal to the supply voltage. At the initial time the current will be maximum and once the capacitor is fully charged the current flow will be approximately equal to zero.

This set of Basic Electronics Engineering Multiple Choice Questions & Answers (MCQs) focuses on "Passive Circuit Components - Capacitors". 1. A capacitor is a _____two terminal electrical component. Explanation: A capacitor is having two terminals and that is passive and it mainly stores the electric energy in an electric field.

A capacitor and a resistor are connected in series to a sine wave generator. The frequency is set so that the

capacitive reactance is equal to the resistance and, thus, an equal amount of voltage appears across each component. If the frequency is increased

What is a capacitor? A capacitor is a device that stores electrical energy in the form of electric field. It consists of two conducting surfaces or plates separated by an insulating ...

Questions on Capacitors 1. Most types of microphone detect sound because the sound waves cause a diaphragm to vibrate. In one type of microphone this diaphragm forms one plate of a parallel plate capacitor. As the diaphragm plate moves. the capacitance chances. Moving the plates closer together increases the capacitance. Moving the plates ...

Questions and model answers on 19.1 Capacitors for the CIE A Level Physics syllabus, written by the Physics experts at Save My Exams.

This set of Basic Electrical Engineering Multiple Choice Questions & Answers (MCQs) focuses on "Types of Capacitor and Capacitance". 1. Paper capacitor is a type of _____ Explanation: Paper capacitors are fixed capacitors because, like fixed capacitors, its capacitance value remains constant.

IIT JEE Main questions with answers for the chapter Capacitor from Physics are given here. These questions are taken from previous year question papers to help students crack their exam. JEE Main 2024 Question Paper Solution Discussion Live JEE Main 2024 Question Paper Solution Discussion Live. × Watch Now . Login. Study Materials. NCERT Solutions. NCERT Solutions ...

Basic Electronics Questions and Answers; Capacitors - General Questions; Directions to Solve. Capacitors - General Questions. 1. If the reactive power of a circuit is 50 mW while the apparent power is 64 mW, then what is the true power of the circuit? A. 14 mW B. 36 mW C. 40 mW D. 114 mW Answer: Option C. Explanation: No answer description available for this question. View ...

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? capacitance of C = R 2.2u10-4 = 220 2.2u10-4 = 1.0 × 10-6 F (1.0 uF) 1 This circuit needs to have a very small time constant, so that it can be assumed that the capacitor discharges fully ...

Electrical Engineering questions and answers; Eight uncharged capacitors with equal capacitances are combined in parallel. The combination is connected to a 6.83V battery, which charges the capacitors. The charging process involves 0.000279C of charge moving through the battery. Find the capacitance C of each capacitor.nC=

Eight Questions and Answers about Capacitors

Conceptual Questions. 1. no; yes. 3. false. 5. no. 7. (displaystyle 3.0uF,0.33uF) 9. answers may vary. 11. Dielectric strength is a critical value of an electrical field above which an insulator starts to conduct; a dielectric constant is the ratio of ...

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If the reading is not close to 0 V, it implies the capacitor needs more time for discharge. Conclusion. While this article presents answers to four frequently asked questions about capacitors, there are several other challenges an electrician might face when working on a circuit containing capacitors.

This article lists 100 Capacitor MCQs for engineering students. All the Capacitor Questions & Answers given below include a hint and a link wherever possible to the relevant topic. This is helpful for users who are preparing for their exams, interviews, or professionals who would like to brush up on the fundamentals of Capacitor.

Capacitor Questions. These questions are related to Capacitor Circuit, Capacitor Connections, Capacitive Reactance, and RC Circuit Time Constant which are are covered in detail here:

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