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Elements of electrical engineering (on photo: ABB MACH control and protection system) The figure show two systems of connections of resistances. In star or 'Y' connection there is a common point for all the three resistors, and in delta or mesh connection the three are connected in series to form the loop and the junctions are taken out to form three supply points.

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Current and voltage dividers, resistors, capacitors, inductors, node voltage and mesh current analysis of circuits, Thevenin and Norton equivalents, AC circuits, phasors, impedance, electromagnetic fields, electric power, transformers, magnetic materials, generators and motors, operational amplifiers, elements of digital circuits, sensors and measurements of physical quantities.

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Electrical elements are conceptual abstractions representing idealized electrical components, such as resistors, capacitors, and inductors, used in the analysis of electrical networks. All electrical networks can be analyzed as multiple electrical elements interconnected by wires. Where the elements roughly correspond to real components, the representation can be in the form of a schematic diagram or circuit diagram. This is called a lumped-element circuit model. In other cases, infinitesimal el

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HOURS (1) Question 1 is compulsory. (2) Attempt any four from the remaining questions. (3) Assume data wherever required.

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Define Electric field, lines of force, electric field intensity, electric flux, flux density and permittivity. Capacitor, charging and discharging phenomena of capacitors and calculations of capacitance for capacitors connected in series and parallel circuits. 4.

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6 Elements of Electrical Engineering If the piece is of steel, when the current is stopped and the bar be removed, it becomes a permanent magnet. If the piece is of soft iron, it will be a strong magnet. 1.8 Applications of Electromagnets : Electro magnets are widely used in Industries and also in many situations in dialy

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