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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

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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.

## **Elements of Electrical Engineering**

Current and voltage  
dividers, resistors,  
capacitors, inductors,  
node voltage and mesh  
current analysis of

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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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*Page 6/27*

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**Engineering |  
Electrical and ...**

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

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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

## **Electrical element - Wikipedia**

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1.Introduction to



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Engineering Definitions of magnetic circuit, Reluctance, Magneto- motive force), magnetic flux, Simple problems on magnetic circuits, Hysterisis, Characters and loss calculations, Faraday's laws of Electromagnetic Induction, Induced E.M.F.,

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communication,

biomedical, and

information systems.

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Engineering - Dec

2015. First Year

Engineering (Semester

1) TOTAL MARKS: 100

TOTAL TIME: 3 HOURS

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

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Question Paper Dec**

...

Define Electric field, lines of force, electric field intensity, electric flux, flux density and

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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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UNIVERSITY**

an ability to develop  
and conduct  
appropriate

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### Electrical

experimentation,  
analyze and interpret

data, and use

engineering judgment  
to draw conclusions; an

ability to acquire and  
apply new knowledge

as needed, using  
appropriate learning

strategies. The

electrical engineering  
program is accredited

by the Engineering

Accreditation

Commission of

ABET, [www.abet.org](http://www.abet.org)



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Common terms and

phrases. air gap

alternating quantity

angle applied average

battery branch cable

Calculate called

capacitance capacitor

carrying cell charge

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circuit coil combination  
conductor connected  
Consider constant core  
curve cycle defined  
delta depends ...

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**U.A.Bakshi, V.U ...**

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

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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 life.

## **IVC - Electrical Engineering Portal**

Electrical engineering  
is concerned with the  
production,  
transmission, and

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utilization of electrical energy and the creation, transmission and processing of information.

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Introduction to

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