<pre> Question FBQ1 : The reorientation of a polar material is not perfect due to agitation. Answer: Therma</pre>
<pre> <pre> Question FBQ2 : Magnetic susceptibility is negative for substances Answer: Diamagnetic</pre></pre>
<pre> Question FBQ3 : In a dielectric material, the extent of the charge separation depends on the magnitude of the field. Answer: local</pre>
<pre> Question FBQ4 : The maximum safe voltage is for a capacitor is called the voltage. Answer: working</pre>
<pre> Question FBQ5 : The presence of dielectric led to the modification of</pre>
<pre> Question FBQ6 : is the property of an electron that makes it behave as if it were rotating around an axis of its own Answer: Spin</pre>
<pre> Question FBQ7 : Diamagnetism involves a change in the of the magnetic moment of an atom. Answer: Magnitude</br></pre>
<pre> Question FBQ8 : Two capacitors connected in parallel have potential difference Answer: Equal</pre>
<pre></pre>
<pre> Question FBQ10 : is the magnetic dipole moment per unit volume. Answer: Magnetisation</pre>
<pre> <pre> Question FBQ11 : is the state of magnetic polarization of a material. Answer: Magnetisation</br></pre></pre>
<pre> <pre> Question FBQ12 : The ratio of the magnetic moment and the angular momentum is calledGyro-magnetic <pre> Answer: ratio</pre></pre></pre>
<pre></pre>
<pre></pre>
<pre> Question FBQ15 : Free currents in a material are caused by external current sources. Answer: Magnetized</pre>
<pre> Question FBQ16 : Magnetic susceptibility is negative for substances. Answer: Diamagnetic</pre>
<pre> Question FBQ17 : The relative permeability</pre>

<pre>K_m for a ferromagnetic material is than unity. Answer: Greater</pre>
<pre> <pre> K_m for a diamagnetic material is than unity.</pre><pre> Answer: Less</pre></pre>
<pre> Question FBQ19 : An atom which loses an electron becomes? Answer: A cation</pre>
<pre> Question FBQ20 : An atom which gains an electron becomes? Answer: An anion</pre>
<pre> Question FBQ21 : Conducting materials contain which are free to move about. Answer: Electrons</pre>
<pre> Question FBQ22 : Molecules that acquire a dipole moment only in the presence of an electric field are Answer: Non- polar</br></pre>
<pre></pre>
<pre> Question FBQ24 : Molecules that possess a permanent dipole moment irrespective of the presence of an electric field are?</pre>
<pre> Question FBQ25 : Ferromagnetic materials are used in the cores of transformers have very hysteresis loop. Answer: narrow</pre>
<pre></pre>
<pre></pre>
<pre> <pre> <pre> Answer: Farad</pre> is the SI unit of capacitance?</pre></pre>
<pre> Question FBQ29 : Magnetic fields are due to charges in motion. Answer: Electric</pre>
<pre> Question FBQ30 : A non-polar molecule acquires a moment only in the presence of an electric field. Answer: Dipole</pre>
<pre> Question FBQ31 : What happens to the capacitance of a parallel plate capacitor if we increase the distance of separation between the parallel plates of a capacitor by two? Answer: The capacitance reduces by a factor of 2</pre>
<pre> Question FBQ32 : The introduction of a dielectric material between the plates of a parallel plate capacitor the capacitance? Answer: increases</pre>

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<br/>or/>Question FBQ33 : Materials which respond very strongly to the presence
of magnetic fields are called___ materials
<br/>Answer: Ferromagnetic
\mbox{\ensuremath{\mbox{chr/}}}\mbox{\ensuremath{\mbox{chr/}}}\mbox{\ensuremath{\mbox{Question}}} EQ34 : In ___ molecules the centres of positive and negative
charges are located at different points.
<br/>Answer: polar
<br/>Question FBQ35 : The value of the magnetic flux B when the magnetic
intensity H is zero is called ____
<br/>Answer: Remanence
<br/>>Question MCQ1 : The capacitance of a parallel plate capacitor depends
on___
<br/>Answer: All the options
<br/>>Question MCQ2 : The magnetic dipole moment per unit volume is
called_
<br/>Answer: Magnetisation
<br/>Question MCQ3 : In a dielectric material, the extent of the charge
separation depends on the magnitude of the __
<br/>Answer: Local field
<br/>Question MCQ4 : The presence of dielectric led to the modification of
    law.
<br/>Answer: Gauss'
<br/><pr/>>Question MCQ5 : Two capacitors connected in parallel have_____.
<br/>Answer: Equal potential difference
<br/>or/>Question MCQ6 : Inside a dielectric, the average electric field is
     than the electric field causing polarisation.
<br/>Answer: Less
<br/><pr/>Question MCQ7 : The magnitude of the force <em>F</em> between two
charges <em>q</em><em><sub>1</sub></em> and <math><em>q</em><em><sub>2</sub></em> kept
at a distance <em>r </em>in a dielectric medium of permittivity <em>\epsilon</em> is
given by:
<br/>Answer: <b><span lang="EN-IE">|F| =
q < sub > 1 < / sub > q < sub > 2 < / sub > / 4\pi\epsilon r < sup > 2 < / sup > < / b >
<br/>>question MCQ8 : A parallel plate capacitor has a capacitance of 1.0 F
and the plates are 1.0 mm apart. What is the area of the plates? (Take
\epsilon < \text{sub} > 0 < /\text{sub} > = 8.85 \times 10 < \text{sup} > -12 < /\text{sup} > F/m
<br/>question MCQ9 : Two plates of a parallel plate capacitor are 8.85 mm
apart and 2.00 m<sup>2</sup> in area. Compute the capacitance of the parallel
plate capacitor. (Take \varepsilon < \text{sub} > 0 < /\text{sub} > = 8.85 \times 10 < \text{sup} > -12 < /\text{sup} > F/m).
<br/>Answer: 2 x 10<sup>-9</sup> F
<br/>or/>Question MCQ10 : Materials which respond very strongly to the presence
of magnetic fields are called___.
<br/>Answer: Ferromagnetic
<br/>Question MCQ11 : The line integral of E around any closed path equals
the rate of change of the magnetic flux \phi through the surface enclosed by the
path is -----law
<br/>Answer: Faraday's
<br/>>Question MCQ12 : What is the effective capacitance of a parallel
arrangement of 4 \muF and 4 \muF capacitors?
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br/>Answer: 2 μF

Ouestion MC013 : Two point charges q₁<</pre> =10nC and q₂ = -60nC are separated bya distance r = 6cm. What is the magnitude of the electric force that q₁ exerts on q<eub>2</sub>?
Answer: 1.5 x 10⁻⁵N
Question MCQ14 : Conducting materials contain _____ which are free to move about.
Answer: Electrons
<pr/>Question MCQ15 : The dipole moment per unit volume is called____
Answer: Polarisation

 >question MCQ16 : The energy stored in a capacitor of capacitance 10 μF is 5 J. What is the voltage applied across its terminals.
Answer: 1,000 V

Question MCQ17 : What is the dipole moment of a dipole comprising two charges q₁ = +8.0nC and q < sub > 2 < / sub > = -8.0 nC with 100 mm separation?
Answer: 8.0 x 10⁻¹⁰
>Question MCQ18 : How much charge is in a 1F capacitor which has a potential difference of 110V?
hr/>Answer: 110 C
of

ouestion MC019 : Three capacitors of equal capacitance C are connected in series. What is the effective capacitance of the circuit?
hr/>Answer: C/3
<pr/>Question MCQ20 : Magnetic field intensity H is measured in _____.
Answer: Amperes per metre
Question MCQ21 : If an atom loses an electron, it becomes which of the following?
Answer: A cation
Question MCQ22 : If an atom gains an electron, it becomes which of the following?
Answer: An anion
Question MCQ23 : The plates of a parallel plate capacitor are separated by a distance. If a dielectric slab is inserted between the plates, the energy stored is _____?
Answer: Decreased
Question MCQ24 : The unit for the energy stored per unit volume in a dielectric medium is _____?
Answer: J/m3
>Question MCQ25 : Which type of capacitor is used in low loss precision circuit where miniaturisation is important?
Answer: Ceramic

Question MCQ26 : Which of these is true of paramagnetic materials?

Answer: They get displaced in the direction of increasing field.

Question MCQ27 : Which of these is true of diamagnetic materials?

Answer: They get attracted in the direction of the decreasing field.

<pre> <pre> Question MCQ28 : The ratio of the magnetic moment and the angular momentum is called? Answer: Gyro-magnetic ratio</pre></pre>
<pre> Question MCQ29 : Diamagnetism involves a change in the of the magnetic moment of an atom. Answer: Magnitude</pre>
<pre> <pre> Question MCQ30 : In paramagnetic and diamagnetic materials the magnetisation is maintained by the der/>Answer: Field</pre></pre>
<pre> Question MCQ31 : The maximum safe voltage for a capacitor is called thevoltage. Answer: Working</pre>
<pre> Question MCQ32 : Calculate the energy stored in the magnetic field of a 3H inductor which carries a current of 2A. Answer: 6J</br></pre>
<pre> <pre> Question MCQ33 : The work done per unit charge is called its</pre><pre> Answer: Potential</pre></pre>
<pre> <pre> Question MCQ34 : Magnetic fields are due to charges in motion.</pre><pre> Answer: Electric</pre></pre>
<pre> Question MCQ35 : Free currents in a magnetized material are caused by Answer: External current sources</pre>
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