```
referred to a/an.
<br/>Answer:
<br/><pr/>Question QMC2 : <img src="@@PLUGINFILE@@/Picture1.png" alt=""</pre>
width="473" height="48"/>
<br/>Answer:
<br/><br/>Question QMC3 : The zero vector is denoted by.
<br/>Answer:
<br/><pr/>Question QMC4 : <img src="@@PLUGINFILE@@/Picture5.png" alt=""</pre>
width="467" height="75"/>
<br/>Answer:
<br/><br/>Question QMC5 : <img src="@@PLUGINFILE@@/Picture10.png" alt=""</pre>
width="491" height="49"/>
<br/>Answer:
<br/><pr/>Question QMC6 : <img src="@@PLUGINFILE@@/Picture15.png" alt=""</pre>
width="455" height="76"/>
<br/>Answer:
<br/><pr/>Question QMC7 : <img src="@@PLUGINFILE@@/Picture20.png" alt=""</pre>
width="471" height="71"/>
<br/>Answer:
<br/>or/>Ouestion OMC8 : <img src="@@PLUGINFILE@@/Picture25.png" alt=""</pre>
width="453" height="45"/>
<hr/>Answer:
<br/><br/>Question QMC9 : <img src="@@PLUGINFILE@@/Picture30.png" alt=""/>
<br/>Answer:
<br/><br/>Question QMC10 : <img src="@@PLUGINFILE@@/Picture33.png" alt=""</pre>
width="474" height="78"/>
<br/>Answer:
<br/><pr/>Question QMC11 : <img src="@@PLUGINFILE@@/Picture38.png" alt=""</pre>
width="466" height="75"/>
<br/>Answer:
<br/><br/>Question QMC12 : <img src="@@PLUGINFILE@@/Picture44.png" alt=""</pre>
width="459" height="43"/>
<br/>Answer:
<br/><br/>Question QMC13 : <img src="@@PLUGINFILE@@/Picture49.png" alt=""</pre>
width="486" height="60"/>
<br/>Answer:
<br/><pr/>Question QMC14 : <img src="@@PLUGINFILE@@/Picture54.png" alt=""</pre>
width="444" height="69"/>
<br/>Answer:
<br/><pr/>Question QMC15 : <img src="@@PLUGINFILE@@/Picture59.png" alt=""</pre>
width="462" height="60"/>
<br/>Answer:
<br/>Question QMC16 : Temperature, gravitational potential or electric
field are quantities known as _____.
<br/>Answer:
<br/><br/>Question QMC17 : <img src="@@PLUGINFILE@@/Picture64.png" alt=""</pre>
width="487" height="43"/>
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or/>Question QMC1 : A quantity which has both magnitude and direction is

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<br/>Answer:
<br/><br/>Question QMC18 : <imq src="@@PLUGINFILE@@/Picture69.png" alt=""</pre>
width="469" height="38"/>
<br/>Answer:
<br/><br/>Question QMC19 : <img src="@@PLUGINFILE@@/Picture74.png" alt=""</pre>
width="455" height="58"/>
<hr/>Answer:
<br/>>question QMC20 : The divergence of a curl of a vector field A is equal
<br/>Answer:
<br/>omc21 : Stoke's theorem is written as.
<br/>Answer:
<br/><br/>Question QMC22 : The condition for a force F to be conservative is.
<br/>Answer:
<br/><br/>>Question QMC23 : The Gauss theorem is written as.
<br/>Answer:
<br/>Question QMC24 : The integral theorem provide expressions for the
gradient, divergence and curl in terms of _____ co-ordinates.
<br/>Answer:
particle charge.
<br/>Answer:
<br/>Question QMC26 : For the static case, the Maxwell's equations separate
into a pair of _____ equations.
<br/>Answer:
<br/><pr/>Question QMC27 : Tensors are commonly denoted by _____capital
letters.
<br/>Answer:
<br/>duestion QMC28 : I is the _____ tensor.
<br/>Answer:
<br/><pr/>>Question QMC29 : The Kinetic energy of a rigid body is _____
<br/>Answer:
<br/><br/>Question QMC30 : <imq src="@@PLUGINFILE@@/Picture95.png" alt=""</pre>
width="466" height="62"/>
<br/>Answer:
<br/><br/>Question QMC31 : <img src="@@PLUGINFILE@@/Picture100.png" alt=""</pre>
width="460" height="55"/>
<br/>Answer:
<br/><br/>Question QMC32 : <img src="@@PLUGINFILE@@/Picture101.png" alt=""</pre>
width="470" height="52"/>
<br/>Answer:
<br/>Question QMC33 : The continuous system of particles that occupy a
surface is defined as a _____ per unit area.
<br/>Answer:
<br/><pr/>Question QMC34 : If a particle moves freely in a space with 3
coordinates. Thus, the number of degree of freedom is _____.
<br/>Answer:
```

number of degree of freedom. Answer:
<pre> <pre> Question QMC36 : Six particles moving freely in a plane has number of degrees of freedom. Answer:</pre></pre>
<pre></pre>
<pre> Question QMC43 : The total is equal to the change in linear momentum. Answer:</pre>
<pre> Question QMC44 : Answer:</pre>
<pre> <pre> Question QMC45 : A system of particles is in equilibrium if and only if the total virtual work of the actual force is. Answer:</pre></pre>
<pre></pre>
<pre> Question QMC47 : The rate of change of velocity with respect to time is called Answer:</pre>
<pre></pre>
<pre> <pre> Question QMC49 : In a simple harmonic oscillations, their restoring forces obey of elasticity. Answer:</pre></pre>
<pre> <pr></pr>Question QMC50 : Speed is a quantity.</pre>

<pr/>Question QMC35 : A particle moving on a given space curve has _____

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<br/>Answer:
<br/>or/>Question QFB1 : A quantity which has both magnitude and direction is
referred to a/an
<br/>Answer: Vector
<br/>Question QFB2 : A quantity specified in magnitude alone is called
a/an
<br/>Answer: Scalar
<br/>Question QFB3 : A set of three mutually perpendicular vectors of unit
length is called _____ triad.
<br/>Answer: Orthogonal
<br/><pr/>Question QFB4 : _____ are the three units vectors pointing in the
direction of the x,y,z-axis respectively.
<br/>Answer: I,J,K
<br/><pr/>Question QFB5 : <img src="@@PLUGINFILE@@/Picture1.png" alt=""</pre>
width="488" height="68"/>
<br/>Answer: Perpendicular
<br/>duestion QFB6 : The limitations on a motion are
called.....<br>
<br/>Answer: constraints
<br/>or/>Ouestion OFB7 : The vector product of a vector with itself is the
  vector.
<br/>Answer: Zero
<br/>obr/>Question QFB8 : The vector product of two polar vectors is thus a/an
     vector.
<br/>Answer: Axial
<br/><pr/>Question QFB9 : Velocity and Force are examples of ______ vectors.
<br/>Answer: Polar
<br/><br/>Question QFB10 : Angular velocity is a/an____ vector.
<br/>Answer: Axial
<br/>Question QFB11 : Temperature, gravitational potential or electric
field are quantities known as _____.
<br/>Answer: Fields
<br/>Question QFB12 : A _____ field is a vector function<span</pre>
style="position:relative"><span style="top:7pt">A(x,y,z)
<br/>Answer: Vector
<br/><br/>Question QFB13 : <img src="@@PLUGINFILE@@/Picture2.png" alt=""</pre>
width="481" height="53"/>
<br/>Answer: Laplacian
<br/>of a vector field A is equal
<br/>Answer: 0
<br/><pr/>Question QFB15 : <img src="@@PLUGINFILE@@/Picture3.png" alt=""</pre>
width="483" height="32"/>
<br/>hr/>Answer: 0
<br/><br/>Question QFB16 : The integral theorem provide expressions for the
gradient, divergence and curl in terms of _____ co-ordinates.
<br/>Answer: Curvilinear
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<br/>or/>Question QFB17 : The basic equations of the electromagnetic theory are
      equations.
<br/>Answer: Maxwell's
<br/>question QFB18 : The _____ force equation determines the force on a
particle charge.
<br/>Answer: Lorentz
<br/>or/>Question QFB19 : For the static case, the Maxwell's equations separate
into a pair of _____ equations.
<br/>Answer: Electrostatic
<br/><pr/>Question QFB20 : _____ occur most frequently when one vector b is
defined as a linear function of another vector a.
<br/>Answer: Tensors
<br/><br/>Question QFB21 : The first subscript labels the rows, and the second,
<br/>Answer: Columns
<br/>or/>Question QFB22 : I is the _____ tensor.
<br/>Answer: Inertia
<br/><pr/>Question QFB23 : The tensor T is called _____, <br/>
<br/>Answer: Symmetric
<br/>or/>Ouestion OFB24 : <img src="@@PLUGINFILE@@/Picture4.png" alt=""</pre>
width="465" height="40"/>
<br/>Answer: Anti-symmetric
<br/><br/>Question QFB25 : <img src="@@PLUGINFILE@@/Picture5.png" alt=""</pre>
width="470" height="30"/>
<br/>hr/>Answer: Unit
<br/><br/>Question QFB26 : The _____
                                      _ product of a and b is written as<span
style="position:relative"><span style="top:3pt">T=ab
<br/>Answer: Tensor
<br/><br/>Question QFB27 : <img src="@@PLUGINFILE@@/Picture6.png" alt=""</pre>
width="456" height="122"/>
<br/>Answer: Eigenvector
<br/><pr/>Question QFB28 : <img src="@@PLUGINFILE@@/Picture7.png" alt=""/>
<br/>Answer: Eigenvalue
<br/><br/>Question QFB29 : <img src="@@PLUGINFILE@@/Picture8.png" alt=""</pre>
width="456" height="96"/>
<br/>Answer: Cubic
<br/><pr/>Question QFB30 : ____ are such that forces applied will change the
distance between individual particles.
<br/>Answer: Deformable
<br/>or/>Question QFB31 : The continuous system of particles that occupy a
surface is defined as a _____ per unit area.
<br/>Answer: Surface density
<br/>Question QFB32 : The number of co-ordinates required to specify the
position of a system of one or more particles is called the number of _____ of
the system.
<br/>Answer: Degree of freedom
<br/>question QFB33 : If a particle moves freely in a space with 3
coordinates. Thus, the number of degree of freedom is _____.
```


Answer: 3
<pr/>Question QFB34 : ___ Co-ordinates are required to specify the position of a rigid body which can move freely in space with 6 degree of freedom.
hr/>Answer: 6
Question QFB35 : A system consisting of N particles moving freely in a space requires ____ co-ordinates to specify its position. Given that its number of degree of freedom is 3N.

Answer: 3N
<pr/>>Question QFB36 : Six particles moving freely in a plane has _____ number of degrees of freedom.

Answer: 12

Question QFB37 : Seven particles moving freely in a space has _____ number of degree of freedom.
Answer: 21
>Question QFB38 : Two particles connected by a rigid rod moving freely in a plane has ____ degrees of freedom.
Answer: 3
or/>Question QFB39 : If a system of particles is in a uniform gravitational field. The center of mass is sometimes called the
Answer: Center of gravity
of a system of particles can be formed by multiplying the total mass M of the system by velocity of the center of mass.
Answer: Total momentum
of continuous continuou particles is constant, then the total momentum remains

Answer: Zero

Question QFB42 : <imq src="@@PLUGINFILE@@/Picture9.png" alt=""</pre> width="487" height="69"/>
Answer: Moment
Question QFB43 : If both the external and internal forces for a system of particles are conservative, then the principle of _____ of energy is valid.
Answer: Conservation
Question QFB44 : <img src="@@PLUGINFILE@@/Picture10.png" alt=""</pre> width="458" height="87"/>
Answer: Kinetic energy
<pr/>Question QFB45 : The total _____ momentum of a system of particles about the centre of mass is zero.
Answer: Linear
Question QFB46 : The total _____ is equal to the change in linear momentum.
Answer: Linear impulse
question QFB47 : A system of particles will be _____ equilibrium if the potential V is a minimum.

Answer: Stable
Question QFB48 : The rate of change of velocity with respect to time is called
Answer: Acceleration

<pre> Question QFB49 : A massmsuspended from a light inextensible string of lengthl, such that the mass is free to swing from side to side in a vertical plane is known as Answer: Simple pendulum</pre>	o
<pre> Question QFB50 : In a simple harmonic oscillations, their restoring forces obey of elasticity. Answer: Hook's law</pre>	