



A mass is projected vertically downwards. Which line could represent the correct energy conversions?  
K.E.      Gravitational PE      Total Energy

Select the correct option

- increases      increases      increases
- increases      decreases      does not change
- decreases      decreases      decreases
- decreases      increases      does not change

Click to Save Answer & Move to Next Question





The anomalous behavior of water can be seen at temperature \_\_\_\_\_.

Select the correct option

- 0 K
- 4 C
- 32 F
- 100 C

Click to Save Answer & Move to Next Question





Equations of motion can only use to find the solution of problems for \_\_\_\_\_.

Select the correct option

- Motion along the circular path
- Motion in straight line
- Motion along curved path
- All of above

Click to Save Answer & Move to Next Question





For the sequence of natural numbers if sum of 'n' natural numbers =  $\text{Summation}(n) = 21$  then value of 'n' is -----.

Select the correct option

- 7
- 6
- 6
- 7

Click to Save Answer & Move to Next Question





If the sum of first  $n$  natural numbers is  $\frac{n(n+1)}{2}$ , Then their average will be——.

Select the correct option

- $n/2$
- $(n-1)/2$
- $(n+1)/2$
- $\frac{n(n+1)}{2}$

Click to Save Answer & Move to Next Question





If an incident ray passes through the centre of curvature of a spherical mirror, the reflected ray will:

Select the correct option

Pass through the focus



Pass through the centre of curvature



Retrace its path



Pass through the pole



Click to Save Answer & Move to Next Question





A car travelling at 90km/hr on highway overtaking a bus with 120km/hr speed. What is relative velocity of car with respect to passenger sitting in bus?

Select the correct option

30 km/hr



210 meters



90km/hr



120 km/hr



Click to Save Answer & Move to Next Question





Between the melting point of ice and the boiling point of water there are

Select the correct option

- 273 Kelvin
- 110 degrees Celsius
- 180 degrees Fahrenheit
- 373 degrees Centigrade

Click to Save Answer & Move to Next Question





The change in length of an object when it undergoes a temperature change is related to

- i. Its original length
- ii. It's mass
- iii. The magnitude of the temperature change

Select the correct option

<input type="radio"/>	(i) only
<input type="radio"/>	(ii) & (iii) only
<input type="radio"/>	(i) & (iii) only
<input type="radio"/>	(i), (ii) & (iii)

Click to Save Answer & Move to Next Question





The objects emits the light and become source of light are called \_\_\_\_\_ objects.

Select the correct option

- Transparent
- Opaque
- Luminous
- Translucent

Click to Save Answer & Move to Next Question





If we apply the force on an object but the object does not move, we can say that\_\_\_\_\_

Select the correct option

- Applied Force is equal to force of friction
- Applied Force is less than force of friction
- Applied Force is greater than force of friction
- Applied force is equal to force of gravity

Click to Save Answer & Move to Next Question





Which of the following process does not involve any chemical reaction ?

Select the correct option

- Burning of paper when heated
- Melting of candle wax when heated
- Ripening of banana
- Digestion of food in our stomach

Click to Save Answer & Move to Next Question





A stone of mass 2 kg dropped from a tower fall to the ground in 3 seconds. A second mass of 3 kg dropped from the same height reaches the ground in:

Select the correct option

2 seconds



3 seconds



4.5 seconds



6 seconds



Click to Save Answer & Move to Next Question





Liquids and gases expand on heating, produce:

Select the correct option

- Convection currents in fluids due to changing masses
- Convection currents in fluids due to changing densities
- Heat transfer by conduction
- Convection currents in fluids due to constant temperatures

Click to Save Answer & Move to Next Question





The amount of heat required to raise the temperature of 1 kg mass of that substance through 1K is called its\_\_\_\_\_.

Select the correct option

- Specific heat
- Specific energy
- Latent heat
- Latent energy

Click to Save Answer & Move to Next Question





Slowing down in opposite direction to the direction of the velocity is known as\_\_\_\_\_.

Select the correct option

- Uniform acceleration
- Non-uniform acceleration
- Positive acceleration
- Negative acceleration

Click to Save Answer & Move to Next Question





BC200414568: NTASHA

Time Left 82 sec(s)

GSC01Grand Quiz

Quiz Start Time: 07:15 PM, 04 January 202

Question # 2 of 30 ( Start time: 07:15:34 PM, 04 January 2021)

Total Marks:

Same force  $F$  is applied on two objects  $X$  and  $Y$  but the accelerations caused by this Applied  $F$  are not same. The object  $X$  has acceleration three times that of object  $Y$  because\_\_\_\_\_

Select the correct option

 X is three times more massive than Y X has one-third the mass of Y X has different shape so easily moved Y has more value of friction

Click to Save Answer &amp; Move to Next Question





If the object is placed -----, then the image formed by a concave mirror is virtual, erect and magnified:

Select the correct option

- Between the pole of the mirror and the focus
- Beyond the centre of curvature
- At the centre of curvature
- At the focus

Click to Save Answer & Move to Next Question





For a force  $F$  acting at an angle  $\theta$  above the horizontal the components along the  $x$  and the  $y$  axis are equal. The angle  $\theta$  in degrees between the Force and the horizontal is:

Select the correct option

- 0
- 30
- 45
- 60

Click to Save Answer & Move to Next Question





If we apply the force on an object but the object does not move, we can say that\_\_\_\_\_

Select the correct option

- Applied Force is equal to force of friction
- Applied Force is less than force of friction
- Applied Force is greater than force of friction
- Applied force is equal to force of gravity

Click to Save Answer & Move to Next Question





If we push the ground in the backwards direction and the ground exerts a force in the forward direction enabling us to walk. This process is described by which law

Select the correct option

- law of Inertia
- law of action and reaction
- law of conservation of momentum
- the Force and acceleration law

Click to Save Answer & Move to Next Question





For diverging lens, which of the following is true?

Select the correct option



The lens is thinner in the center than on the edges.



The lens is thicker in the center than on the edges.



Light must enter it parallel to the principal axis.



The lens must be flat on one side.

Click to Save Answer & Move to Next Question





Which of the following statement/s is/are correct:

Select the correct option

- Optical fibers can bend light using the principle of Laws of refraction
- Optical fibers bend the light beam using the principle of total internal reflection
- Optical fibers cannot bend the light
- Optical fibers can bend light using the principle of Laws of reflection

Click to Save Answer & Move to Next Question





When mercury level rises in the clinical thermometer, the mercury in capillary tube does not contract because?

Select the correct option

- Mercury takes a long time to contract
- The amount of mercury use is very small
- The capillary tube has a small constriction near the bulb
- The capillary tube is very narrow

Click to Save Answer & Move to Next Question





Sum of first 2000 terms of the sequence:  
{-1,1,-1,1,...}is-----

Select the correct option

- 1
- 1
- 0
- Undefined

Click to Save Answer & Move to Next Question





Work done depends upon (i) force (ii) distance moved in direction of force applied and (iii) angle between direction of force and displacement. Which line is always correct if work done is not zero:

Select the correct option

(i) is not zero



(i) and (ii) are not zero



(i) and (iii) are not zero



(ii) and (iii) are not zero



Click to Save Answer & Move to Next Question





A motion where a body has the exact same motion around a fixed point is an example of

Select the correct option

- random motion
- translatory motion
- vibratory motion
- circular motion

Click to Save Answer & Move to Next Question





The branch of Physics which deals with the study of motion of bodies without the influence of force is known as\_\_\_\_\_.

Select the correct option

- Mechanics
- Kinematics
- Dynamics
- Modern Physics

Click to Save Answer & Move to Next Question





There is no deviation in the path of ray of light when it passes through \_\_\_\_\_ of a lens.

Select the correct option

- Optical centre
- Focus
- Centre of curvature
- Pole

Click to Save Answer & Move to Next Question





Which of the following quantum number gives the shell number where electron occupy?

Select the correct option

- l
- m
- s
- n

Click to Save Answer & Move to Next Question





Which of following has positive charge ?

Select the correct option

- Atom
- Electron
- Proton
- Neutron

Click to Save Answer & Move to Next Question





Isotopes are sisters atoms of same elements with similar chemical properties but different \_\_\_\_\_ .

Select the correct option

- Atomic structure
- Atomic volume
- Atomic numbers
- Atomic weights

Click to Save Answer & Move to Next Question





BC200402248: ADEEB UN NISA

Time Left 88 sec(s)

GSC01Grand Quiz

Quiz Start Time: 04:23 PM, 04 January 2021

Question # 22 of 30 ( Start time: 04:31:40 PM, 04 January 2021 )

Total Marks:

A person suffering from long-sighted cannot see objects nearer to his eye than 50 cm. He wants to read a book 25 cm away; he should use spectacle lenses whose power in dioptries is -----.

Select the correct option

 -6 -4 -2 +4[Click to Save / Answer & Move to Next Question](#)



In cold areas during winters pipes which are not properly insulated may burst due to:

Select the correct option

- real expansion of water
- apparent expansion of water
- expansion of pipes
- anomalous expansion of water

Click to Save Answer & Move to Next Question





BC200408250: IGRA MUNIR

Time Left 46 sec(s)

GSC01Grand Quiz

Quiz Start Time: 05:42 PM, 04 January 202

Question # 11 of 30 ( Start time: 05:46:30 PM, 04 January 2021 )

Total Marks:

According to the sign convention, the distance of object..... from mirror/lens:

Select the correct option

- Is always positive
- Is always negative
- May be positive or negative
- Is equal to object height

Click to Save Answer &amp; Move to Next Question





-----is combined with iron to make steel

Select the correct option

- Sulphur
- Carbon
- Iodine
- Magnesium

Click to Save Answer & Move to Next Question





Force is defined as the rate of change of:

Select the correct option

- velocity
- acceleration
- momentum
- mass

Click to Save Answer & Move to Next Question





Amino acids are organic compounds which contain

-----

Select the correct option

- Oxygen
- Sulphur
- Nitrogen
- Calcium

Click to Save Answer & Move to Next Question





If the velocity of an object is decreasing, acceleration has to be

Select the correct option

- positive
- negative
- uniform
- variable

Click to Save Answer & Move to Next Question



BC200400788: MUNAZZA YAMEEN SHAH

Time Left: 55 sec(s)

MTH102:Grand Quiz

Quiz Start Time: 03:33 PM, 01 January 202

Question # 6 of 30 ( Start time: 03:36:13 PM, 01 January 2021 )

Total Marks:

Sum of the geometric series:  
 $1+(1/2)+(1/4)+(1/8)+\dots$  is

Select the correct option

- 2
- $3/2$
- 1
- $5/2$

Click to Save Answer & Move to Next Question



When a horse pulls a wagon the horse moves forward due to the force:

Select the correct option

- of the horse on the wagon
- of the wagon on the horse
- of the horse on the ground
- of the ground on the horse

Click to Save Answer & Move to Next Question





The energy stored in compressed spring is known as

\_\_\_\_\_

Select the correct option

- Kinetic energy
- Chemical energy
- Sound energy
- Elastic potential energy

Click to Save Answer & Move to Next Question





The energy stored in compressed spring is known as

\_\_\_\_\_

Select the correct option

- Kinetic energy
- Chemical energy
- Sound energy
- Elastic potential energy

Click to Save Answer & Move to Next Question





The SI unit of energy is:

Select the correct option

- Newton
- Watt
- Pascal
- Joule

Click to Save Answer & Move to Next Question





For a force  $F$  acting along the horizontal axis, its horizontal component equals:

Select the correct option

- 0
- $\frac{1}{2} F$
- $F$
- $2 F$

Click to Save Answer & Move to Next Question





The most abundant metal in earth crust is \_\_\_\_\_.

Select the correct option

- Calcium
- Sodium
- Iron
- Aluminum

Click to Save Answer & Move to Next Question





Which of the following metals are corroded?

Select the correct option

- Cu
- Fe
- Ag
- Ni

Click to Save Answer & Move to Next Question





Which of following has positive charge ?

Select the correct option

- Atom
- Electron
- Proton
- Neutron

Click to Save Answer & Move to Next Question





BC200414568: NTASHA

Time Left 80 sec(s)

GSC01Grand Quiz

Quiz Start Time: 07:15 PM, 04 January 2021

Question # 12 of 30 ( Start time: 07:17:53 PM, 04 January 2021 )

Total Marks:

which of the following is the fastest speed

Select the correct option

- 30,000 km per day
- 300 km per minute
- 300 meters per second
- 300 millimeters per microsecond

Click to Save Answer & Move to Next Question





The first step in the scientific method or process is:

Select the correct option

predication



observation



hypothesis



experimentation



Saving





A person sitting inside a moving train is in a state of ..... with respect to the other passengers

Select the correct option

- uniform speed
- variable speed
- uniform acceleration
- rest

Click to Save Answer & Move to Next Question





A motion of a turbine is an example of:

Select the correct option

random motion



translatory motion



vibratory motion



circular motion



Click to Save Answer & Move to Next Question





A -----mirror is used by dentists to focus light on the tooth of a patient:

Select the correct option

- Cylindrical
- Plane
- Convex
- Concave

Click to Save Answer & Move to Next Question





Valencies of Nobel gasses in general are\_\_\_\_\_

Select the correct option

- Three
- one
- two
- zero

Saving





If focal length of a lens is -50 cm, the power of lens will be \_\_\_\_\_.

Select the correct option

- +50 D
- 2 D
- 50 D
- +2 D

Click to Save Answer & Move to Next Question





Optical fiber works on:

Select the correct option

- Principle of total internal reflection
- Reflection
- Refraction
- Polarization

Click to Save Answer & Move to Next Question





BC200414568: NTASHA

Time Left 90 sec(s)

GSC01Grand Quiz

Quiz Start Time: 07:15 PM, 04 January 202

Question # 19 of 30 ( Start time: 07:19:12 PM, 04 January 2021)

Total Marks:

Efficiency is defined as:

Select the correct option

useful output energy  $\div$  input energy



input energy  $\div$  total output energy



total output energy  $\times$  input energy



input energy  $\times$  useful output energy



Click to Save Answer &amp; Move to Next Question





The rate of change of velocity is known as

Select the correct option

- uniform velocity
- variable velocity
- average velocity
- acceleration

Click to Save Answer & Move to Next Question





A motion of a child on a swing is an example of:

Select the correct option

random motion



translatory motion



vibratory motion



circular motion



Click to Save Answer & Move to Next Question





What three things can light rays travel through?

Select the correct option

Solids, liquids, gases

Air, water, outer space

Humans, plants, animals

Liquid, Air, Plants

Click to Save Answer & Move to Next Question





When two bodies are moving relative to one another the motion between them is

Select the correct option

- translatory
- circular
- rotational
- relative

Click to Save Answer & Move to Next Question





The shortest distance between two points is also known as the:

Select the correct option

- distance
- speed
- acceleration
- displacement

Click to Save Answer & Move to Next Question





Which of the following contain  $\text{-CHO}$  functional group?

Select the correct option

- |                       |           |
|-----------------------|-----------|
| <input type="radio"/> | Alcohols  |
| <input type="radio"/> | Aldehydes |
| <input type="radio"/> | Ketones   |
| <input type="radio"/> | Esters    |

Click to Save Answer & Move to Next Question





Greater the value of refractive index of a medium , the blending of light will be \_\_\_\_\_.

Select the correct option

- Greater
- Smaller
- Zero
- Negative

Click to Save Answer & Move to Next Question





The branch of Physics which deals with the study of motion of bodies without the influence of force is known as\_\_\_\_\_.

Select the correct option

- Mechanics
- Kinematics
- Dynamics
- Modern Physics

Click to Save Answer & Move to Next Question





Due to which property metals are used in making of musical instruments like sitar and violin?

Select the correct option

- Conductivity
- Malleability
- Ductility
- Sonorousness

Click to Save Answer & Move to Next Question





The objects emits the light and become source of light are called \_\_\_\_\_ objects.

Select the correct option

- Transparent
- Opaque
- Luminous
- Translucent

Click to Save Answer & Move to Next Question





Solar cell technology is an example of \_\_\_\_\_.

Select the correct option

- Thermal energy
- Nuclear energy
- Renewable energy
- Non-renewable energy

Click to Save Answer & Move to Next Question





The energy of an atom in a compound \_\_\_\_\_.

Select the correct option

- Remains same
- Higher than individual
- Lesser than individual
- Can not find out

Click to Save Answer & Move to Next Question





The most abundant metal in earth crust is \_\_\_\_\_.

Select the correct option

- Calcium
- Sodium
- Iron
- Aluminum

Click to Save Answer & Move to Next Question





Between the melting point of ice and the boiling point of water there are

Select the correct option

- 273 Kelvin
- 110 degrees Celsius
- 180 degrees Fahrenheit
- 373 degrees Centigrade

Click to Save Answer & Move to Next Question





BC200414568: NTASHA

Time Left 46 sec(s)

GSC01Grand Quiz

Quiz Start Time: 07:15 PM, 04 January 202

Question # 23 of 30 ( Start time: 07:20:23 PM, 04 January 2021)

Total Marks:

Due to which property metals are used in making of musical instruments like sitar and violin?

Select the correct option

- |                                  |              |
|----------------------------------|--------------|
| <input type="radio"/>            | Conductivity |
| <input checked="" type="radio"/> | Malleability |
| <input type="radio"/>            | Ductility    |
| <input type="radio"/>            | Sonorousness |

[Click to Save Answer & Move to Next Question](#)



which line represents the SI unit of force and its unit:

Select the correct option

- kilogram meter    kg m
- gram    g
- kilogram kg
- Newton N

Click to Save Answer & Move to Next Question





BC200408250: IGRA MUNIR

Time Left: 80 sec(s)

GSC01Grand Quiz

Quiz Start Time: 05:42 PM, 04 January 202

Question # 1 of 30 (Start time: 05:42:08 PM, 04 January 2021)

Total Marks:

Acceleration of a car moving steadily from 2m/s to 10 m/s in 50 s is\_\_\_\_\_.

Select the correct option

 0.24 m/s<sup>2</sup> 0.4 m/s<sup>2</sup> 0.61 m/s<sup>2</sup> 1.6 m/s<sup>2</sup>

Click to Save Answer &amp; Move to Next Question





BC200414568: NTASHA

Time Left 89 sec(s)

GSC01Grand Quiz

Quiz Start Time: 07:15 PM, 04 January 202

Question # 13 of 30 ( Start time: 07:18:06 PM, 04 January 2021 )

Total Marks:

Which of the following halogens element has highest electron affinity?

Select the correct option

- |                       |          |
|-----------------------|----------|
| <input type="radio"/> | Fluorine |
| <input type="radio"/> | Chlorine |
| <input type="radio"/> | bromine  |
| <input type="radio"/> | Iodine   |

Click to Save Answer &amp; Move to Next Question





BC200400788: MUNAZZA YAMEEN SHAH

Time Left 82 sec(s)

MTH102:Grand Quiz

Quiz Start Time: 03:33 PM, 01 January 2021

Question # 17 of 30 ( Start time: 03:41:12 PM, 01 January 2021 )

Total Marks:

sum of first n-1 natural numbers is

Select the correct option

Reload Math Equations

<input type="radio"/>	$S_n = \frac{n}{2} + (n + 1)$
<input type="radio"/>	$S_n = \frac{n-1}{2}(n)$
<input type="radio"/>	$S_n = \frac{n}{2}(n + 1)$
<input checked="" type="radio"/>	$S_n = \frac{n}{2}(n - 1)$

Click to Save Answer &amp; Move to Next Question





Till now, how many elements are known?

Select the correct option

- 92
- 118
- 112
- 124

Click to Save Answer & Move to Next Question





The SI unit of heat is:

Select the correct option

- Kelvin
- Joule
- thermometer
- Watt

Click to Save Answer & Move to Next Question





Which of the following is a derived unit:

Select the correct option

- Kilogram
- Kelvin
- Ampere
- Newton

Click to Save Answer & Move to Next Question





A kilowatt hour is a unit of

Select the correct option

power



force



energy



time



Click to Save Answer & Move to Next Question



Sum of first 2000 terms of the sequence:

$\{-1, 1, -1, 1, \dots\}$  is-----

Select the correct option

<input checked="" type="radio"/>	-1
<input type="radio"/>	1
<input type="radio"/>	0
<input type="radio"/>	Undefined

 [Click to Save Answer & Move to Next Question](#)



A person sitting inside a moving train is in a state of ..... with respect to the other passengers

Select the correct option

- uniform speed
- variable speed
- uniform acceleration
- rest

Click to Save Answer & Move to Next Question





Solar cell technology is an example of \_\_\_\_\_.

Select the correct option

- Thermal energy
- Nuclear energy
- Renewable energy
- Non-renewable energy

Click to Save Answer & Move to Next Question

