



Motion and Time

Question 1.

The speed of a car is 40 km/h. What is time taken to reach from one city to another city if the distance between the two cities is 480 km:

- (a) 10 hours
- (b) 11 hours
- (c) 14 hours
- (d) 12 hours

▼ [Answer](#)

(d) 12 hours

The time is taken by a car is 12 hours.

Question 2.

72 km/h m/s:

- (a) 72 m/s
- (b) 20 m/s
- (c) 36 m/s
- (d) 12 m/s

▼ [Answer](#)

(b) 20 m/s

72 km/h – 20m/s

Question 3.

The standard unit of time is:

- (a) hour
- (b) minute
- (c) second
- (d) all of these

▼ [Answer](#)

(c) second

The standard unit of time is second.

Question 4.

The clock used now a days are:

- (a) quartz
- (b) minute
- (c) second
- (d) all of these

▼ [Answer](#)

(a) quartz

The quartz clock is used now-a-days.

Question 5.

When weight of bob in a pendulum is increased then the oscillation period of a pendulum is:

- (a) increased
- (b) decreased
- (c) no change
- (d) can't say

▼ [Answer](#)

(b) decreased

When weight of bob in pendulum is increased, the oscillation period of pendulum is decreased.

Question 6.

The standard unit of length is:

- (a) metre ('m')
- (b) kilometre
- (c) m/s
- (d) km/h

▼ [Answer](#)

(a) metre ('m')

The standard unit of length is meter ('m').

Question 7.

The standard unit of mass is:

- (a) 'kg'
- (b) mg
- (c) g
- (d) none of these

▼ [Answer](#)

(a) 'kg'

('Kg') is the unit of mass.

Question 8.

The standard unit of temperature is:

- (a) 'Kg'
- (b) F
- (c) °C
- (d) can't say

▼ [Answer](#)

(a) 'Kg'

('K') is the unit of temperature.

Question 9.

Distance:

- (a) $D = S \times T$
- (b) $D =$
- (c) $D =$
- (d) $D =$

▼ [Answer](#)

- (a) $D = S \times T$
 $D = S \times T$

Question 10.

Time:

- (a) $t = d \times s$
- (b) $t =$
- (c) $t =$
- (d) $t =$

▼ [Answer](#)

- (c) $t =$
 $t =$

Question 11.

The distance moved by the object in a unit time is:

- (a) time
- (b) distance
- (c) speed
- (d) can't say

▼ [Answer](#)

- (c) speed
The distance moved by the object in a unit time is speed.

Question 12.

The pictorial representation of two variables inter dependent of one another is known as:

- (a) motion
- (b) graph
- (c) speed
- (d) time

▼ [Answer](#)

- (b) graph
Graph is pictorial representation of two objects.
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Question 13.

If an object covers equal distance in equal intervals of time, then the object is said to have:

- (a) non-uniform motion
- (b) uniform motion
- (c) oscillation
- (d) none of these

▼ [Answer](#)

- (b) uniform motion

A straight line covers equal distance in equal intervals of time is uniform motion.

Question 14.

A device used to measure the speed of vehicles is:

- (a) odometer
- (b) graph
- (c) speedometer
- (d) none of these

▼ [Answer](#)

- (c) speedometer

Speedometer measure the speed of vehicles.

Question 15.

The to and fro motion of the particle about its mean position is called:

- (a) intervals
- (b) vibration
- (c) pendulum
- (d) can't say

▼ [Answer](#)

- (b) vibration

To and fro motion is vibration.

Question 16.

The most common example of periodic motion or oscillatory motion is:

- (a) interval
- (b) pendulum
- (c) simple pendulum
- (d) speedometer

▼ [Answer](#)

- (c) simple pendulum

Simple pendulum is periodic or oscillatory motion.

Question 17.

The time interval between one sunrise and next sunrise is called a:

- (a) year
- (b) month
- (c) day
- (d) week

▼ [Answer](#)

- (c) day

The time interval between one sunrise to next sunrise is a day.

Question 18.

Which of the following motion is circular motion:

- (a) motion of a child over see saw
- (b) motion of a car running on a straight road
- (c) motion of an electric bell hammer
- (d) motion of a child in a merry go round

▼ [Answer](#)

- (d) motion of a child in a merry go round

A child in a merry-go-round is circular motion.

Question 19.

A simple pendulum takes 32 S complete 20 oscillations. What is the time period of pendulum:

- (a) 640
- (b) 0.625
- (c) 1.60
- (d) none of these

▼ [Answer](#)

- (b) 0.625

The time period of pendulum is 0.625.

Question 20.

Distance between two cities is measured in:

- (a) metres
- (b) kilometres
- (c) second
- (d) kilogram

▼ [Answer](#)

- (b) kilometres

Distance between two cities is measrued by kilometers.

Question 21.

Motion of a train on a straight

- (a) oscillatory motion
- (b) circular motion

- (c) uniform motion
- (d) straight line motion

▼ [Answer](#)

- (d) straight line motion

A train on a straight bridge is straight line motion.

Question 22.

A device used to measure the distance moved by a vehicle:

- (a) odometer
- (b) speedometer
- (c) both
- (d) none of these

▼ [Answer](#)

- (a) odometer

An odometer measured the distance moved by a vehicle.

Question 23.

The time taken by the earth to make one revolution around the sun is called a:

- (a) day
- (b) week
- (c) month
- (d) year

▼ [Answer](#)

- (d) year

The earth make one revolution around the sun in a year.

Question 24.

The motion of a vibrating particle from one extreme position to another extreme position about its mean position is:

- (a) speed
- (b) circulation
- (c) oscillation
- (d) none of these

▼ [Answer](#)

- (c) oscillation

The motion of vibrating particle is circulation.

Question 25.

The time taken by a vibrating body to complete one vibration is:

- (a) speed
- (b) time of period

- (c) distance
- (d) all of these

▼ [Answer](#)

- (b) time of period

The time taken by a vibrating body to complete one vibration is time period.

Question 26.

A horse pulling a cart has:

- (a) oscillatory motion
- (b) circular motion
- (c) linear motion
- (d) none of these

▼ [Answer](#)

- (a) oscillatory motion

A horse pulling a cart has oscillatory motions.

Question 27.

If the speed of a body moving in a straight line changes then the speed of the body is:

- (a) uniform
- (b) non-uniform
- (c) some times uniform and non-uniform
- (d) none of these

▼ [Answer](#)

- (b) non-uniform

If the speed of a body moving in a straight line changes then the speed of the body is non-uniform.

Question 28.

An earth completes one revolution around the sun in:

- (a) 1 day
- (b) 1 year
- (c) 1 hour
- (d) none of these

▼ [Answer](#)

- (b) 1 year

An earth complete one revolution around the sun in a year.

Question 29.

A simple pendulum is an example of:

- (a) periodic motion
- (b) circular motion

- (c) linear motion
- (d) none of these

▼ [Answer](#)

- (a) periodic motion

Periodic motion is an example of a simple pendulum.

Question 30.

An odometer is used to measure:

- (a) speed
- (b) distance
- (c) motion
- (d) none of these

▼ [Answer](#)

- (b) distance

Distance is measured by an odometer.

Question 31.

The hammer of an electric bell has motion:

- (a) circular motion
- (b) vibratory motion
- (c) linear motion
- (d) periodic motion

▼ [Answer](#)

- (b) vibratory motion

The hammer of an electric bell has vibratory motion.

Question 32.

The unit of speed of train is:

- (a) meter per hour
- (b) meter per second
- (c) kilometer per hour
- (d) mile per second

▼ [Answer](#)

- (c) kilometer per hour

The unit of speed of train is kilometer per hour.

Question 33.

The times taken by a pendulum to complete one oscillation is:

- (a) oscillation period
- (b) 1 second
- (c) time period
- (d) frequency

▼ Answer

(c) time period

The time taken by a pendulum to complete one oscillation is time period.

Question 34.

The correct relation for speed is:

(a) $\text{speed} = \frac{\text{distance}}{\text{time}}$

(b) $\text{speed} = \frac{\text{time}}{\text{distance}}$

(c) $\text{speed} = \text{distance} \times \text{time}$

(d) $\text{speed} = \frac{1}{\text{distance} \times \text{time}}$

▼ Answer

(a) $\text{speed} = \frac{\text{distance}}{\text{time}}$

$\text{speed} = \frac{\text{distance}}{\text{time}}$

Question 35.

The speed of a train is 60 km/h. The distance covered by the train in 4 hours would be:

(a) 15 km

(b) 240 km

(c) km

(d) none of these

▼ Answer

(b) 240 km

The distance covered by a train would be 240 km.

Question 36.

Classify the following as motions is oscillatory motion:

(a) motion of your hands while running

(b) motion of a horse pulling a cart on a straight road

(c) motion of a child in a merry go round

(d) motion of a train on a straight line

▼ Answer

(a) motion of your hands while running

Motion your hands while running is oscillatory motion.

Question 37.

Which of the following is correct statements:

- (a) the basic unit of time is second
- (b) every object moves with a constant speed
- (c) distance between two cities is measured in metres
- (d) the time period of a given pendulum is not constant

▼ [Answer](#)

(a) the basic unit of time is second

The basic unit of time is second.

Question 38.

The graph between distance, time for a body at rest is a:

- (a) straight line parallel to a distance axis
- (b) straight line parallel to time axis
- (c) curve line
- (d) straight line

▼ [Answer](#)

(b) straight line parallel to time axis

Straight line parallel to time axis.

Question 39.

A car covers a distance of 220 km in 4 hours what is its speed:

- (a) 50 km/h
- (b) 55 km/h
- (c) 224 km/h
- (d) 880 km/h

▼ [Answer](#)

(b) 55 km/h

The speed of a car is 55 km/h.

Question 40.

The graph between distance and time for a non uniform motion is a:

- (a) curve line
- (b) can't say
- (c) straight line
- (d) none of these

▼ [Answer](#)

(a) curve line

The graph between distance and time is curve line for non-uniform motion.

Question 41.

A car covers 40 km in first hour, 115 km in next two hours and 45 km in next one hours. Find

out its averages speed:

- (a) 100 km/h
- (b) 66.6 km/h
- (c) 50 km/h
- (d) none of these

▼ [Answer](#)

(c) 50 km/h

The total averages speed of a car is 50 km/h.

Question 42.

The S.I. unit of speed is:

- (a) m/s
- (b) km/min
- (c) km/h
- (d) km/s

▼ [Answer](#)

(a) m/s

The S.I. unit of speed is m/s.

[Match the column A with column B:](#)

Question 1.

Column-A	Column-B
(a) Merry go round	(i) straight line
(b) Over see-saw	(ii) circular motion
(c) Your hands while running	(iii) linear motion
(d) Train on a straight line	(iv) oscillatory motion
(e) Horse pulling a cart	(v) oscillatory motion

▼ [Answer](#)

Column-A	Column-B
(a) Merry go round	(ii) circular motion
(b) Over see-saw	(iv) oscillatory motion
(c) Your hands while running	(v) oscillatory motion
(d) Train on a straight line	(i) straight line
(e) Horse pulling a cart	(iii) linear motion

Question 2.

Column-A	Column-B
(a) 365 days	(i) 1 millennium = 1000 years
(b) 10 years	(ii) 1 century = 100 years
(c) 10 decades	(iii) 1 decade
(d) 10 centuries	(iv) 1 year

▼ [Answer](#)

Column-A	Column-B
(a) 365 days	(iv) 1 year
(b) 10 years	(iii) 1 decade
(c) 10 decades	(ii) 1 century = 100 years
(d) 10 centuries	(i) 1 millennium = 1000 years

State the following statements are True or False:

Question 1.

The basic unit of time is second.

▼ [Answer](#)

True

Question 2.

Every object moves with a constant speed.

▼ [Answer](#)

False

Question 3.

The time period of a given pendulum is not constant.

▼ [Answer](#)

True

Question 4.

The speed of a train is expressed in m/h.

▼ [Answer](#)

False

Question 5.

Distance between two cities is measured in kilometers.

▼ [Answer](#)

True

Question 6.

Motion of your hands while running is oscillatory motion.

▼ [Answer](#)

True

Question 7.

A simple pendulum is an example of linear motion.

▼ [Answer](#)

False

Question 8.

A speedometer is used to measure distance.

▼ [Answer](#)

False

Question 9.

Minute is the basic unit of time.

▼ [Answer](#)

False

Question 10.

Second is the larger unit of time.

▼ [Answer](#)

False

Question 11.

Working of clock depends on periodic motion.

▼ [Answer](#)

True

Question 12.

When an object covers equal distances in equal intervals of time, however small be the intervals, then we say that it is in uniform motion.

▼ Answer

True

Fill in the blanks:

Question 1.

The motion of vehicles on a straight road is in

▼ Answer

straight line

Question 2.

Revolving of earth around the sun is motion.

▼ Answer

uniform motion

Question 3.

Running athlete is the example of motion.

▼ Answer

non-uniform motion

Question 4.

The weight should swing freely on being moved some distance to one side and released is

▼ Answer

oscillation

Question 5.

The time taken by a pendulum to complete an oscillation is called the period of

▼ Answer

oscillation

Question 6.

On increasing the length of the pendulum the oscillation period also

▼ Answer

increases

Question 7.

..... measures the distance moved by vehicle.

▼ [Answer](#)

odometer

Question 8.

..... records speed directly in km/h.

▼ [Answer](#)

speedometer

Question 9.

A horse pulling a cart has

▼ [Answer](#)

linear motions

Question 10.

..... is metallic ball of a pendulum.

▼ [Answer](#)

Bob of pendulum

Question 11.

The basic unit of speed is

▼ [Answer](#)

m/s

Question 12.

Speed =

▼ [Answer](#)

distance lime
