



KINETICS

We Nurture The Future

IIT-JEE | Medical | Foundations

Winds, Storms and Cyclones

Question 1.

Winds currents generated by uneven heating between the equator and the:

- (a) Moon
- (b) Poles
- (c) Sun
- (d) Stars

▼ [Answer](#)

(b) Poles

Winds currents generated by uneven heating between the equator and the poles

Question 2.

Smoke is hotter and lighter than:

- (a) water
- (b) heat
- (c) air
- (d) none of these

▼ [Answer](#)

(c) air

Smoke is hotter and lighter than air.

Question 3.

The India Meteorological department forecasts cyclones with the help of:

- (a) Rohini satellite
- (b) Aryabhata satellite
- (c) INSAT satellite
- (d) None of these

▼ [Answer](#)

(c) INSAT satellite

The India Meteorological department forecasts cyclones with the help of INSAT satellite.

Question 4.

The heated air that rises up gets cooled and sinks which cause the:

- (a) conduction currents
- (b) radiation
- (c) convection currents
- (d) none of these

▼ [Answer](#)

(c) convection currents

The heated air that rises up gets cooled and sinks which cause the convection currents.

Question 5.

A natural hazard causing destruction is called a:

- (a) natural disaster
- (b) cyclone
- (c) thunderstorm
- (d) none of these

▼ [Answer](#)

- (a) natural disaster

A natural hazard causing destruction is called a natural disaster.

Question 6.

Who among the following was the first to observe that whenever air moves its pressure drop ?

- (a) Galileo
- (b) Bernoulli
- (c) Newton
- (d) Guericke

▼ [Answer](#)

- (b) Bernoulli

Bernoulli was the first to observe that whenever air moves its pressure drop ?

Question 7.

Which of the following natural disasters is characterized by thunder and lightning ?

- (a) Drought
- (b) Flood
- (c) Thunderstorm
- (d) Cyclone

▼ [Answer](#)

- (c) Thunderstorm

Thunder storm is characterized by thunder and lightning.

Question 8.

An alternative name of natural disaster is:

- (a) natural calamity
- (b) storm
- (c) cyclone
- (d) tornado

▼ [Answer](#)

- (a) natural calamity

An alternative name of natural disaster is natural calamity.

Question 9.

An intense whirl in the atmosphere with very strong winds is known as:

- (a) natural calamity
- (b) storm
- (c) cyclone
- (d) tornado

▼ [Answer](#)

(c) cyclone

An intense whirl in the atmosphere with very strong winds is known as cyclone.

Question 10.

Which of the following States of India is prone to be hit by a cyclone ?

- (a) Orissa
- (b) Haryana
- (c) Uttar Pradesh
- (d) Rajasthan

▼ [Answer](#)

(a) Orissa

Orissa is prone to be hit by a cyclone.

Question 11.

Air exerts pressure in:

- (a) sideways only
- (b) downward direction only
- (c) upward direction only
- (d) all directions

▼ [Answer](#)

(d) all directions

Air exerts pressure in all directions.

Question 12.

Air expands on:

- (a) heating
- (b) cooling
- (c) drying
- (d) none of these

▼ [Answer](#)

(a) heating

Air expands on heating.

Question 13.

The calm centre of cyclone is:

- (a) Eye
- (b) Nose
- (c) Skin
- (d) None of these

▼ [Answer](#)

(a) Eye
The calm centre of cyclone is eye.

Question 14.

Winds are expected to blow towards the equator, at a latitude of:

- (a) 40°N
- (b) 30°N
- (c) 20°N
- (d) None of these

▼ [Answer](#)

(c) 20°N
Winds are expected to blow towards the equator, at a latitude of 20°N.

Question 15.

When we go up in the atmosphere, the air pressure:

- (a) increases
- (b) reduces
- (c) both (a) and (b)
- (d) none of these

▼ [Answer](#)

(b) reduces
When we go up in the atmosphere, the air pressure reduces.

Question 16.

A cyclone is a:

- (a) violent storm
- (b) weak storm
- (c) slow
- (d) none of these

▼ [Answer](#)

(a) violent storm
A cyclone is a violent storm.

Question 17.

Which of the following place is unlikely to be affected by a cyclone ?

- (a) Chennai
- (b) Mangalore

- (c) Amritsar
- (d) Puri

▼ [Answer](#)

(c) Amritsar
Amritsar is unlikely to be affected by cyclone.

Question 18.

What step is to be taken for helping neighbours during cyclones ?

- (a) Moving them to cyclone shelters
- (b) Shifting their household properties to safer places
- (c) Providing them medical aid
- (d) All of the above

▼ [Answer](#)

(d) All of the above
All the steps given above is to be taken for helping neighbours during cyclones.

Question 19.

How many hours in advance cyclone chart is issued of expected storms by satellites and radars ?

- (a) 72
- (b) 48
- (c) 96
- (d) 12

▼ [Answer](#)

(b) 48
48 hours is used in advance in cyclone chart to expected storms by satellites and radars.

Question 20.

A disaster fell on Orissa in India on:

- (a) 22 Oct., 1999
- (b) 29 Oct., 1999
- (c) 18 Oct., 1999
- (d) None of these

▼ [Answer](#)

(c) 18 Oct., 1999
A disaster fell on Orissa in India in 18 Oct, 1999.

Question 21.

Second cyclone hit Orissa on:

- (a) 22 Oct., 1999
- (b) 29 Oct., 1999

- (c) 18 Oct., 1999
- (d) None of these

▼ [Answer](#)

(b) 29 Oct., 1999
Second cyclone hit Orissa in 29 Oct, 1999.

Question 22.

The number of homeless people hit by cyclone was:

- (a) about 30,000 people
- (b) about 60,000 people
- (c) about 80,000 people
- (d) about 70,000 people

▼ [Answer](#)

(d) about 70,000 people
The no. of homeless people hit by cyclone was about 70,000.

Question 23.

Which modern technologies have made easier to monitor cyclones?

- (a) Radar and satellites
- (b) Anemometer
- (c) Radio and Television
- (d) Television and satellites

▼ [Answer](#)

(a) Radar and satellites
Radar and satellites modern technologies have made easier to monitor cyclones.

Question 24.

When is a cyclone warning issued

- (a) 48 hours in advance
- (b) 32 hours in advance
- (c) 24 hours in advance
- (d) 42 hours in advance

▼ [Answer](#)

(c) 24 hours in advance
Cyclone warning is issued 24 hours in advance.

Question 25.

What can be the maximum speed of tornado ?

- (a) 30 km/hr
- (b) 300 km/hr
- (c) 3000 km/hr
- (d) 3 km/hr

▼ [Answer](#)

(b) 300 km/hr
300 km/hr is maximum speed of tornado.

Question 26.
We fill air into bicycle tubes to keep the tyre:
(a) tight
(b) loose
(c) heavy
(d) big

▼ [Answer](#)

(a) tight
We fill air into bicycle tubes to keep the tyre tight.

Question 27.
Air has:
(a) force
(b) force when it is cold
(c) no force
(d) force when it is hot

▼ [Answer](#)

(a) force
Air has force.

Question 28.
When a balloon deflates then:
(a) there is low sound
(b) there is loud sound
(c) no sound
(d) none of these

▼ [Answer](#)

(b) there is loud sound
When balloon deflates then there is loud sound.

Question 29.
Hot air compared to cold air is:
(a) heavy
(b) lighter
(c) same
(d) none of these

▼ [Answer](#)

(b) lighter

Hot air compare to cold air is lighter.

Question 30.

Speed winds are accompanied by:

- (a) increased air pressure
- (b) reduced air pressure
- (c) there is no change in air pressure
- (d) none of these

▼ [Answer](#)

(b) reduced air pressure

Speed winds are accompanied by reduce air pressure.

Question 31.

Air moves:

- (a) from the region where the air pressure is high to the region where the pressure is low
- (b) from the region where the air pressure is low to the region where the pressure is high
- (c) any where
- (d) none of these

▼ [Answer](#)

(a) from the region where the air pressure is high to the region where the pressure is low

Air moves from the region where the air pressure is high to the region where the pressure is low.

Question 32.

A storm is marked by:

- (a) thunder and lightning
- (b) flood
- (c) water cycle
- (d) storm

▼ [Answer](#)

(a) thunder and lightning

A storm is marked by thunder and lightening.

Question 33.

The amount of water on the earth remains more or less the same because of:

- (a) thunder
- (b) flood
- (c) water cycle
- (d) all of the above

▼ [Answer](#)

(c) water cycle

Amount of water on the earth remains more or less the same because of water cycle.

Question 34.

A dark funnel-shaped cloud that reaches from the sky to the ground is:

- (a) cyclone
- (b) tornado
- (c) hurricane
- (d) none of these

▼ [Answer](#)

(b) tornado

A dark funnel-shaped like cloud that reaches from the sky to the ground tornado.

Question 35.

A name given to cyclone in American continent is:

- (a) tornado
- (b) hurricane
- (c) typhoon
- (d) none of these

▼ [Answer](#)

(b) hurricane

A name given to the cyclone in American continent is hurricane.

Question 36.

A name give to cyclone in Philippines and Japan is:

- (a) tornado
- (b) hurricane
- (c) typhoon
- (d) none of these

▼ [Answer](#)

(c) typhoon

A name given to cyclone in Philippines and Japan is Typhoon.

Question 37.

The instrument used to measure wind speed is:

- (a) barometer
- (b) anemometer
- (c) rain guage
- (d) none of these

▼ [Answer](#)

(b) anemometer

The instrument used to measure wind speed is anemometer.

Question 38.

Cyclones:

- (a) damages houses
- (b) reduces the fertility of soil
- (c) damages trees
- (d) all of these

▼ [Answer](#)

- (d) all of these

Cyclones damages houses, damages trees and reduces the fertility of soil.

Question 39.

The factors which contribute to the development of cyclones is:

- (a) wind speed
- (b) temperature, humidity
- (c) wind direction
- (d) all of these

▼ [Answer](#)

- (d) all of these

The factors which contribute to development of cyclones is wind speed, wind direction and temperature, humidity.

Question 40.

When water changes from liquid to vapour state then water requires:

- (a) wind
- (b) heat
- (c) air
- (d) none of these

▼ [Answer](#)

- (b) heat

When water changes from liquid to vapour state then water requires heat.

Question 41.

The moving air is called:

- (a) wind
- (b) heat
- (c) air
- (d) none of these

▼ [Answer](#)

- (a) wind

The moving air is called wind.

Question 42.

A formation of a very low pressure system with very high speed winds revolving around it is called

- (a) wind
- (b) thunderstorm
- (c) cyclones
- (d) none of these

▼ [Answer](#)

(c) cyclones

A formation of a very low pressure system with very high speed winds revolving around it is called cyclones.

Question 43.

A swift movement of the falling water droplets along with the rising air and creating lightning and sound is:

- (a) wind
- (b) thunderstorm
- (c) cyclone
- (d) none of these

▼ [Answer](#)

(b) thunderstorm

A swift movement of the falling water droplets along with the rising air and creating lightning and sound is thunder storm.

Question 44.

The winds which flow from the oceans towards the land is:

- (a) monsoon winds
- (b) storm
- (c) cyclones
- (d) none of these

▼ [Answer](#)

(a) monsoon winds

The winds which flow from the oceans towards the land is monsoon winds.

Question 45.

Monsoon carry water and it starts:

- (a) wind
- (b) storm
- (c) rain
- (d) none of these

▼ [Answer](#)

(c) rain

Monsoon carry water and it starts rain.

Question 46.

Rain may cause excess water everywhere which is called:

- (a) flood
- (b) air
- (c) cyclone
- (d) none of these

▼ [Answer](#)

- (a) flood

Rain may cause excess water everywhere which is called flood.

Question 47.

Floods may occur which destroys:

- (a) vegetation
- (b) property
- (c) life
- (d) all of these

▼ [Answer](#)

- (d) all of these

Floods may occur which destroys vegetation, property and life.

Question 48.

The direction of the wind gets reversed, it flows from the land to the ocean in:

- (a) summers
- (b) winters
- (c) monsoons
- (d) none of these

▼ [Answer](#)

- (b) winters

The direction of the wind gets reversed, it flows from the land to the ocean in winters.

Question 49.

Near the equator the land warms up faster in:

- (a) summer
- (b) winter
- (c) monsoon
- (d) none of these

▼ [Answer](#)

- (a) summer

Near the equator the land warms up faster in summer.

Question 50.

Most of the time, the temperature of the land is higher than that of the water in the:

- (a) oceans
- (b) rivers
- (c) lakes
- (d) sea

▼ [Answer](#)

(a) oceans

Most of time, the temperature of the land is higher than that of the water in the oceans.

[Match Column A with Column B:](#)

Question 1.

Column- A	Column- B
(a) In India cyclone hits	(i) 29 Oct., 1999
(b) First cyclone hit Orissa on	(ii) 70,000 people
(c) Second cyclone hit Orissa on	(iii) 18 Oct., 1999
(d) The homeless people hit by cyclone	(iv) Orissa

▼ [Answer](#)

Column- A	Column- B
(a) In India cyclone hits	(iv) Orissa
(b) First cyclone hit Orissa on	(iii) 18 Oct., 1999
(c) Second cyclone hit Orissa on	(i) 29 Oct., 1999
(d) The homeless people hit by cyclone	(ii) 70,000 people

Question 2.

Column- A	Column- B
(a) Winds carry water and bring rain	(i) Hurricane
(b) Speed of wind is measured by	(ii) Monsoon
(c) A dark funnel shaped cloud	(iii) Anemometer
(d) In American continent	(iv) Tornado

▼ [Answer](#)

Column- A	Column- B
(a) Winds carry water and bring rain	(ii) Monsoon
(b) Speed of wind is measured by	(iii) Anemometer
(c) A dark funnel shaped cloud	(iv) Tornado
(d) In American continent	(i) Hurricane

Question 3.

Column- A	Column- B
(a) Cyclone alert issued	(i) wind
(b) Cyclone warning issued	(ii) 300 km/hr
(c) Maximum speed of tornado	(iii) 48 hrs. in advance
(d) Moving air	(iv) 24 hrs. in advance

▼ [Answer](#)

Column- A	Column- B
(a) Cyclone alert issued	(iii) 48 hrs. in advance
(b) Cyclone warning issued	(iv) 24 hrs. in advance
(c) Maximum speed of tornado	(ii) 300 km/hr
(d) Moving air	(i) wind

State whether the following statements are 'True' or 'False':

Question 1.

Monsoon winds carry water and it rains.

▼ [Answer](#)

True

Question 2.

Moving air is storm.

▼ [Answer](#)

False

Question 3.

Typhoons are dark funnel shaped clouds.

▼ [Answer](#)

False

Question 4.

Anemometer is used to measure the speed of wind.

▼ [Answer](#)

True

Question 5.

Orissa was hit by a cyclone on 18 Oct., 1999.

▼ [Answer](#)

True

Question 6.

Self help is best help. It is better to plan in advance and to be ready to defend any approaching cyclone.

▼ [Answer](#)

True

Question 7.

Regularly listen to weather bulletins on T.V. and radio.

▼ [Answer](#)

True

Question 8.

Hurricane is a cyclone in Philippines and Japan.

▼ [Answer](#)

False

Question 9.

The word monsoon is derived from the Arabic word 'mausan' which means 'season'.

▼ [Answer](#)

True

Question 10.

The coastline of India is not vulnerable to cyclones.

▼ [Answer](#)

False

Question 11.

In winters, the winds flow from the land to the ocean.

▼ [Answer](#)

True

Question 12.

A cyclone is formed by a very high pressure system with a very high speed wind revolving around it.

▼ [Answer](#)

False

Question 13.

In summers, the winds flow the land towards the ocean.

▼ [Answer](#)

False

Question 14.

A good house is one which has no windows and ventilation.

▼ [Answer](#)

False

Question 15.

Water should be used as such as in a cyclone hit area.

▼ [Answer](#)

False

Question 16.

Thunder storm is a kind of weather characterized by rain.

▼ [Answer](#)

True

[Fill in the blanks:](#)

Question 1.

Air exerts in all direction.

▼ [Answer](#)

pressure

Question 2.

The Indian Meteorological Department forecasts cyclones with the help of satellite.

▼ [Answer](#)

INSAT

Question 3.

Rubber suckers work because of air

▼ [Answer](#)

pressure

Question 4.

A is a violent, twisting funnel of wind.

▼ [Answer](#)

tornado

Question 5.

Wind is air.

▼ [Answer](#)

moving

Question 6.

Wind is generated due to heating on the earth.

▼ [Answer](#)

uneven

Question 7.

Near the earth's surface air rises up whereas air comes down.

▼ [Answer](#)

hot, cold

Question 8.

Air moves from a region of pressure to a region of pressure.

▼ [Answer](#)

high, low

Question 9.

..... and have made easier to monitor cyclones.

▼ [Answer](#)

Radar, satellites

Question 10.

..... are important for harvest. If harvest is good, farmers are happy.

▼ [Answer](#)

Clouds

Question 11.

..... is a cyclone in Philippines and Japan.

▼ [Answer](#)

Typhoon

Question 12.

Continuous heavy rainfall leads to situation.

▼ [Answer](#)

flood
