

1. Match the following items given in Column A with that in Column B.

Column A	Column B
(a) Air	(i) Thin layer of air surrounding our earth.
(b) Wind	(ii) Released in respiration.
(c) Atmosphere	(iii) Makes three fourth part of total air.
(d) Oxygen	(iv) Is process of burning of food to get energy.
(e) Carbon dioxide	(v) Uses wind power to rotate.
(f) Nitrogen	(vi) Process of preparation of food by green plants.
(g) Respiration	(vii) Allow air to move here and there.
(h) Photosynthesis	(viii) Is a gaseous mixture.
(i) Windmill	(ix) Supports combustion.
(j) Open areas	(x) Is air in motion.

2. Fill in the blanks with appropriate words:

- (i) When air is in ..... it is called wind.
- (ii) Air has no ..... and one can see through it. It is .....
- (iii) Air is really not one substance but a .....
- (iv) Air contains ..... particles.
- (v) The component of air that supports burning is called .....
- (vi) The oxygen helps in breaking down the digested food in the body to release the .....
- (vii) Our earth is surrounded by .....
- (viii) Initial drops of first rain bring a lot of ..... along with them.
- (ix) The aquatic animals use dissolved oxygen in water for respiration. This is possible because oxygen is ..... In water.
- (x) Nitrogen of the air is used on a large scale to manufacture .....
- (xi) Air is present in, atmosphere, water and .....
- (xii) The method of separating two components of a mixture which is based on the wind is .....
- (xiii) ..... air is used in tyres of vehicles.
- (xiv) ..... is the place in nature for gaseous exchange.

3. State whether the statements given below are True or False:

- (i) We can not see air.
- (ii) Air is a compound and not an element.
- (iii) A firki rotates only in an open area or in a closed room with the ceiling fan switched on.
- (iv) Open area allows to air to move here and there.
- (v) Air is an opaque material.
- (vi) We breath in CO<sub>2</sub> and breath out O<sub>2</sub>.
- (vii) A policeman, controlling the traffic wears a mask to prevent the dust particles from entering his respiratory system through breathing.

- (viii) Air is necessary for burning things.
- (ix) The major part of air is nitrogen.
- (x) Air becomes thinner as we go high up from surface of earth.
- (xi) Plants produce oxygen through photosynthesis.
- (xii) Plants do not respire.

4. Choose the correct option in the following question:

- (i) Major part of the air is constituted by
  - (a) Nitrogen                      (b) Oxygen                      (c) Carbon dioxide                      (d) Inert gases
- (ii) Which gas helps in burning?
  - (a) Nitrogen                      (b) Oxygen                      (c) Carbon dioxide                      (d) Carbon monoxide
- (iii) Which gas we use in breathing?
  - (a) Carbon dioxide                      (b) Nitrogen                      (c) Oxygen                      (d) None of these
- (iv) What is wind?
  - (a) Air around us                      (b) Rising hot air                      (c) Air in motion                      (d) None of these
- (v) Air is present in
  - (a) Atmosphere                      (b) Soil
  - (c) Water of ponds, lakes and seas                      (d) Everywhere
- (vi) Air is
  - (a) Mixture                      (b) Pure substance
  - (c) An element                      (d) Depends on the place where it is found
- (vii) Envelope of air that surrounds the earth is known as
  - (a) Biosphere                      (b) Atmosphere                      (c) Environment                      (d) Ecosystem
- (viii) Which is not a property of air?
  - (a) It occupies space                      (b) It is transparent                      (c) It is a solution                      (d) It is a compound
- (ix) The ratio of nitrogen to oxygen in the air is:
  - (a) 1 : 4                      (b) 4 : 1                      (c) 3 : 1                      (d) 1 : 2
- (x) The main constituent of the air is
  - (a) Nitrogen                      (b) Oxygen                      (c) Carbon dioxide                      (d) Hydrogen