

**Directions:**

In each of the following questions, there are two statements labelled as Assertion (A) and Reason (R) .

Give answer

- (a) If both 'A' and 'R' are true and 'R' is the correct explanation of 'A'
- (b) If both 'A' and 'R' are true but 'R' is not the correct explanation of 'A'
- (c) If 'A' is true but 'R' is false
- (d) If 'A' is false but 'R' is true
- (e) If both 'A' and 'R' are false.

**1) Assertion (A):**

Inside the Earth, metals are present in a molten state.

**Reason (R):**

The earth absorbs the Sun's rays.

- a) If both 'A' and 'R' are true and 'R' is the correct explanation of 'A'
- b) If both 'A' and 'R' are true but 'R' is not the correct explanation of 'A'
- c) If 'A' is true but 'R' is false
- d) If 'A' is false but 'R' is true
- e) If both 'A' and 'R' are false

**2) Assertion (A):**

British sovereignty continued to exist in India.

**Reason (R):**

The British sovereign appointed the last Governor-General of free India.

- a) If both 'A' and 'R' are true and 'R' is the correct explanation of 'A'
- b) If both 'A' and 'R' are true but 'R' is not the correct explanation of 'A'
- c) If 'A' is true but 'R' is false
- d) If 'A' is false but 'R' is true
- e) If both 'A' and 'R' are false

**3) Assertion (A):**

We prefer to wear white clothes in winter.

**Reason (R):**

White clothes are good reflectors of heat.

- a) If both 'A' and 'R' are true and 'R' is the correct explanation of 'A'
- b) If both 'A' and 'R' are true but 'R' is not the correct explanation of 'A'
- c) If 'A' is true but 'R' is false
- d) If 'A' is false but 'R' is true
- e) If both 'A' and 'R' are false

**4) Assertion (A):**

Ashoka pillars have retained their gloss on their surface.

**Reason (R):**

Moisture-laden winds do not blow in the areas where it is located.

- a) If both 'A' and 'R' are true and 'R' is the correct explanation of 'A'
- b) If both 'A' and 'R' are true but 'R' is not the correct explanation of 'A'
- c) If 'A' is true but 'R' is false
- d) If 'A' is false but 'R' is true
- e) If both 'A' and 'R' are false

**5) Assertion (A):**

Graphite is slippery and used as a lubricant.

**Reason (R):**

Graphite has free electrons.

- a) If both 'A' and 'R' are true and 'R' is the correct explanation of 'A'
- b) If both 'A' and 'R' are true but 'R' is not the correct explanation of 'A'
- c) If 'A' is true but 'R' is false
- d) If 'A' is false but 'R' is true
- e) If both 'A' and 'R' are false

**6) Assertion (A):**

India's 'Republic Day falls on 26th January.

**Reason (R):**

Constitution of India, declaring India as a 'Republic', came into force on 26th January 1950.

- a) If both 'A' and 'R' are true and 'R' is the correct explanation of 'A'

b) If both 'A' and 'R' are true but 'R' is not the correct explanation of 'A'

c) If 'A' is true but 'R' is false

d) If 'A' is false but 'R' is true

**7) Assertion (A):**

**Carbon monoxide when inhaled causes death.**

**Reason (R):**

**Carbon monoxide combines hemoglobin.**

a) If both 'A' and 'R' are true and 'R' is the correct explanation of 'A'

b) If both 'A' and 'R' are true but 'R' is not the correct explanation of 'A'

c) If 'A' is true but 'R' is false

d) If 'A' is false but 'R' is true

**8) Assertion (A):**

**Clothes are not washed properly in hard water.**

**Reason (R):**

**Hard water contains many minerals.**

a) If both 'A' and 'R' are true and 'R' is the correct explanation of 'A'

b) If both 'A' and 'R' are true but 'R' is not the correct explanation of 'A'

c) If 'A' is true but 'R' is false

d) If 'A' is false but 'R' is true

**9) Assertion (A):**

**Mahatma Gandhi is considered as 'Father of the Nation' in India.**

**Reason (R):**

**Mahatma Gandhi was the first Governor-General of Independent India.**

a) If both 'A' and 'R' are true and 'R' is the correct explanation of 'A'

b) If both 'A' and 'R' are true but 'R' is not the correct explanation of 'A'

c) If 'A' is true but 'R' is false

d) If 'A' is false but 'R' is true

**10) Assertion (A):**

**Social integration in the workplace is necessary.**

**Reason (R):**

**There are many backward classes in society.**

a) If both 'A' and 'R' are true and 'R' is the correct explanation of 'A'

b) If both 'A' and 'R' are true but 'R' is not the correct explanation of 'A'

c) If 'A' is true but 'R' is false

d) If 'A' is false but 'R' is true

**11) Assertion (A):**

**A ship rises as it enters the sea from a river.**

**Reason (R):**

**The density of seawater is higher as compared to river water.**

a) Both A and R are true and R is the correct explanation of A.

b) Both A and R are true but R is not the correct explanation of A.

c) A is true but R is false.

d) A is false but R is true.

e) Both A and R are false.

**12) Assertion (A):**

**Alcohol rather than mercury is used in a thermometer to measure a temperature of -60°C.**

**Reason (R):**

**Alcohol has a lower freezing point than mercury.**

a) Both A and R are true and R is the correct explanation of A.

b) Both A and R are true but R is not the correct explanation of A.

c) A is true but R is false.

d) A is false but R is true.

e) Both A and R are false.

**13) Assertion (A):**

**Inside the earth, metals are present in a molten state.**

**Reason (R):**

**The earth absorbs the sun's rays.**

a) Both A and R are true and R is the correct explanation of A.

b) Both A and R are true but R is not the correct explanation of A.

c) A is true but R is false.

d) A is false but R is true.

e) Both A and are false.

**14) Assertion (A):**

**Clothes are not washed properly in hot water.**

**Reason (R):**

**Hard water contains many minerals.**

a) Both A and R are true and R is the correct explanation of A.

b) Both A and R are true but R is not the correct explanation of A.

c) A is true but R is false.

d) A is false but R is true.

e) Both A and are false.

**15) Assertion (A):**

**Plaster of Paris is used by doctors for setting fractured bones.**

**Reason (R):**

**When Plaster of Paris is mixed with water and applied around the fractured limbs, it sets into a hard mass.**

a) Both A and R are true and R is the correct explanation of A.

b) Both A and R are true but R is not the correct explanation of A.

c) A is true but R is false.

d) A is false but R is true.

e) Both A and are false.

**16) Assertion (A):**

**The use of chlorofluorocarbons is banned throughout the world nowadays.**

**Reason (R):**

**These chemicals cause skin cancer.**

a) Both A and R are true and R is the correct explanation of A.

b) Both A and R are true but R is not the correct explanation of A.

c) A is true but R is false.

d) A is false but R is true.

e) Both A and are false.

**17) Assertion (A):**

**Areas near the Equator receive rainfall throughout the year.**

**Reason (R):**

**High temperatures and high humidity cause conventional rain in most afternoons near the Equator.**

a) Both A and R are true and R is the correct explanation of A.

b) Both A and R are true but R is not the correct explanation of A.

c) A is true but R is false.

d) A is false but R is true.

e) Both A and are false.

**18) Assertion (A):**

**Eskimos reside in igloos.**

**Reason (R):**

**No other material except snow is available.**

a) Both A and R are true and R is the correct explanation of A.

b) Both A and R are true but R is not the correct explanation of A.

c) A is true but R is false.

d) A is false but R is true.

e) Both A and are false.

**19) Mercury is the farthest planet from the Sun.**

**Reason (R):**

**Mercury is the smallest planet in the entire solar system.**

a) Both A and R are true and R is the correct explanation of A.

b) Both A and R are true but R is not the correct explanation of A.

c) A is true but R is false.

d) A is false but R is true.

e) Both A and are false.



20) Assertion (A):

On the equinoxes, the day and night are equal all over the globe.

Reason (R):

On the equinoxes, the position of the earth with respect to the sun is such that neither pole is inclined towards the sun.

- a) Both A and R are true and R is the correct explanation of A.
- b) Both A and R are true but R is not the correct explanation of A.
- c) A is true but R is false.
- d) A is false but R is true.
- e) Both A and R are false.

21) Assertion (A):

We prefer to wear white clothes in winter.

Reason (R):

White clothes are good reflectors of heat.

- a) Both A and R are true and R is the correct explanation of A.
- b) Both A and R are true but R is not the correct explanation of A.
- c) A is true but R is false.
- d) A is false but R is true.
- e) Both A and R are false.

22) Assertion (A):

Unpolished rice should be eaten.

Reason (R):

Polished rice lacks Vitamin B.

- a) Both A and R are true and R is the correct explanation of A.
- b) Both A and R are true but R is not the correct explanation of A.
- c) A is true but R is false.
- d) A is false but R is true.
- e) Both A and R are false.

23) Assertion (A):

Copper is used to making electrical wires.

Reason (R):

Copper has very low electrical resistance.

- a) Both A and R are true and R is the correct explanation of A.
- b) Both A and R are true but R is not the correct explanation of A.
- c) A is true but R is false.
- d) A is false but R is true.
- e) Both A and R are false.

24) Assertion (A):

When a body is dipped in a liquid fully or partially, there is a decrease in its weight.

Reason (R):

The decrease in weight is due to the higher density of the displaced liquid.

- a) Both A and R are true and R is the correct explanation of A.
- b) Both A and R are true but R is not the correct explanation of A.
- c) A is true but R is false.
- d) A is false but R is true.
- e) Both A and R are false.

25) Assertion (A):

Leakages in household gas cylinders can be detected.

Reason (R):

LPG has a strong smell.

- a) Both A and R are true and R is the correct explanation of A.
- b) Both A and R are true but R is not the correct explanation of A.
- c) A is true but R is false.
- d) A is false but R is true.
- e) Both A and R are false.

26) Assertion (A):

We feel comfortable in a hot and humid climate.

Reason (R):

Sweat evaporates faster in a humid climate.

- a) Both A and R are true and R is the correct explanation of A.

- b) Both A and R are true but R is not the correct explanation of A.  
c) A is true but R is false.  
d) A is false but R is true.  
e) Both A and R are false.

**27) Assertion (A):**

A saltwater fish drinks seawater whereas a freshwater fish never drinks water.

**Reason (R):**

A saltwater fish is hypertonic to its environment while a freshwater fish is hypotonic to its environment.

- a) Both A and R are true and R is the correct explanation of A.  
b) Both A and R are true but R is not the correct explanation of A.  
c) A is true but R is false.  
d) A is false but R is true.  
e) Both A and R are false.

**28) Assertion (A):**

Seeds should be treated with fungicide before being sown.

**Reason (R):**

Seeds do not germinate unless treated with a fungicide solution.

- a) Both A and R are true and R is the correct explanation of A.  
b) Both A and R are true but R is not the correct explanation of A.  
c) A is true but R is false.  
d) A is false but R is true.  
e) Both A and R are false.

**29) Assertion (A):**

No food material normally enters the windpipe during swallowing.

**Reason (R):**

When we swallow, the back portion of our tongue covers the opening of the windpipe.

- a) Both A and R are true and R is the correct explanation of A.

- b) Both A and R are true but R is not the correct explanation of A.  
c) A is true but R is false.  
d) A is false but R is true.  
e) Both A and R are false.

**30) Assertion (A):**

Ventilators are provided near the roof.

**Reason (R):**

Conduction takes place better near the roof.

- a) Both A and R are true and R is the correct explanation of A.  
b) Both A and R are true but R is not the correct explanation of A.  
c) A is true but R is false.  
d) A is false but R is true.  
e) Both A and R are false.