

**Question: 1**

**Assertion (A) :** India is facing the problems of inflation.

**Reason (R) :** We have failed to check the growth of black money.

- (A) Both A and R are true but R is not the correct explanation of A.
- (B) Both A and R are true and R is the correct explanation of A.
- (C) A is true but R is false.
- (D) A is false but R is true.

Ans: B

Inflation in India is caused by unrestricted growth of black money.

**Question: 2**

**Assertion (A) :** Venus is placed distant from Sun as compared to Mercury, yet it is the hottest planet.

**Reason (R) :** Immense carbon dioxide in the atmosphere of Venus creates a green house effect.

- (A) Both A and R are true but R is not the correct explanation of A.
- (B) Both A and R are true and R is the correct explanation of A.
- (C) A is true but R is false.
- (D) A is false but R is true.

Ans: B

97% of Venus atmosphere comprises of carbon dioxide which traps the incoming solar energy very efficiently.

**Question: 3**

**Assertion (A) :** Salt is added to cook food at higher altitudes.

**Reason (R) :** Temperature is lower at higher altitudes.

- (A) Both A and R are true but R is not the correct explanation of A.
- (B) Both A and R are true and R is the correct explanation of A.
- (C) A is true but R is false.
- (D) A is false but R is true.

Ans: A

Due to decrease in pressure at higher altitudes, water boils much below  $100^{\circ}\text{C}$  so that the food does not get sufficient heat for being cooked. Salt increases the boiling point of water.

**Question: 4**

**Assertion (A) :** Clothes are not washed properly in hot water.  
**Reason (R) :** Hard water contains many minerals.

- (A) Both A and R are true but R is not the correct explanation of A.
- (B) Both A and R are true and R is the correct explanation of A.
- (C) A is true but R is false.
- (D) A is false but R is true.

Ans: A

Clothes are not washed properly in hard water because it does not form lather with soap.

However, it is true that hard water contains many minerals.

**Question: 5**

**Assertion (A) :** The filament in an electric bulb does not burn up although its temperature is about  $2700^{\circ}\text{C}$  when it glows.  
**Reason (R) :** Bulb filament is made of tungsten.

- (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 false but R is true.
- (D) Both A and R are false.

Ans: B

Despite high temperature, the filament in a bulb does not get burnt due to absence of oxygen, as the bulb is first evacuated and then filled with an inert gas like argon or helium. However, it is true that bulb filament is made of tungsten.

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