

## Water Resources | Important Assertion/Reason | Class 10th

Here are the Assertion & Reason Questions of Chapter 3 'Water Resources'. These questions will help you practice different types of questions which can be asked in exams.

### Must practice these Assertion/Reason questions

**Q.1 Assertion (A):** Many Indian cities face water scarcity even though they receive sufficient rainfall.

**Reason (R):** Water scarcity is often caused by over-exploitation, excessive use, and unequal access, not just low rainfall.

- 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

**Answer: a** Both A and R are true, and R is the correct explanation of A

**Explanation :** Cities face water scarcity mainly due to overuse and unequal access, not just low rainfall. So, both A and R are true, and R correctly explains A.

**Q.2 Assertion (A):** Intensive industrialisation and urbanisation have led to depletion of freshwater resources.

**Reason (R):** Industries are not major consumers of water in India.

- 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

**Answer: c)** A is true but R is false

**Explanation:** Industrialisation and urbanisation increase water usage and pollution, leading to freshwater depletion. But the reason is false because industries are heavy users of water.

**Q.3 Assertion (A):** Building dams is a modern practice started only after independence.

**Reason (R):** Historical records show no evidence of ancient water conservation systems.

- 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

**Answer: d)** Both A and R are false

**Explanation:** Dams and other hydraulic structures have been part of India's history since ancient times. The assertion and reason are both incorrect.

**Q.4 Assertion (A):** The Jal Jeevan Mission aims to provide piped water to every rural household.  
**Reason (R):** It ensures supply of at least 55 litres per person per day on a long-term basis.

- 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

**Answer: a)** Both A and R are true, and R is the correct explanation of A

**Explanation:** The mission's goal is to provide 55 litres of potable piped water daily per person, ensuring ease of living.

**Q.5 Assertion (A):** Over-exploitation of water will lead to ecological crisis.  
**Reason (R):** Water is a renewable resource and cannot be exhausted.

- 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

**Answer: c)** A is true but R is false

**Explanation:** While water is renewable, it **can** be depleted if overused and mismanaged, which may cause an ecological crisis.

**Q.6 Assertion (A):** Atal Bhujal Yojana focuses only on building new water sources.  
**Reason (R):** The scheme excludes awareness and behavioural change components.

- a) Both A and R are true
- b) Both A and R are false
- c) A is true but R is false
- d) A is false but R is true

**Answer: b)** Both A and R are false

**Explanation:** Atal Bhujal Yojana focuses on water conservation and community behavioural change, not just building infrastructure.

**Q.7 Assertion (A):** Dams today serve multiple purposes including irrigation, electricity generation, and flood control.  
**Reason (R):** Traditionally, dams were built only to store water for irrigation.

- a) Both A and R are true, and R explains A
- b) Both A and R are true, but R does not explain A
- c) A is true, R is false
- d) A is false, R is true

**Answer:** a) Both A and R are true, and R explains A

**Explanation:** Initially, dams were mainly for irrigation, but now they serve many integrated purposes like hydropower, flood control, and water supply.

**Q.8 Assertion (A):** The Bhakra–Nangal project uses water only for irrigation purposes.

**Reason (R):** The project integrates water use for both irrigation and hydropower generation.

a) Both A and R are true, and R explains A

b) Both A and R are true, but R does not explain A

c) A is true, R is false

d) A is false, R is true

**Answer:** d) A is false, R is true

**Explanation:** The Bhakra-Nangal project uses water for both irrigation and hydel power, making the assertion false.

**Q.9 Assertion (A):** Jawaharlal Nehru called dams the ‘temples of modern India’ because they symbolized integrated development.

**Reason (R):** Dams helped combine agricultural, industrial, and urban growth in India.

a) Both A and R are true, and R explains A

b) Both A and R are true, but R does not explain A

c) A is true, R is false

d) A is false, R is true

**Answer:** a) Both A and R are true, and R explains A

**Explanation:** Nehru saw dams as symbols of development because they supported multiple sectors simultaneously.

**Q.10 Assertion (A):** Sedimentation in reservoirs leads to poorer aquatic habitats.

**Reason (R):** Sedimentation causes the bottom of reservoirs to become rockier and less hospitable for aquatic life.

a) Both A and R are true, and R explains A

b) Both A and R are true, but R does not explain A

c) A is true, R is false

d) A is false, R is true

**Answer:** a) Both A and R are true, and R explains A

**Explanation:** Sediment build-up in reservoirs disrupts habitats by creating rocky streambeds unfavourable to aquatic life.

**Q.11 Assertion (A):** Large dams, meant to control floods, have sometimes triggered floods instead.

**Reason (R):** Sedimentation in reservoirs reduces their water-holding capacity.

a) Both A and R are true, and R explains A

b) Both A and R are true, but R does not explain A

c) A is true, R is false

d)

A is false, R is true

**Answer:** a) Both A and R are true, and R explains A

**Explanation:** Sedimentation decreases reservoir capacity, leading to overflow and floods during heavy rains.

**Q.12 Assertion (A):** Pradhan Mantri Krishi Sinchayee Yojana aims to provide irrigation access to all farms.

**Reason (R):** The scheme promotes water-use efficiency and sustainable conservation practices.

a) Both A and R are true, and R explains A

b) Both A and R are true, but R does not explain A

c) A is true, R is false

d) A is false, R is true

**Answer:** a) Both A and R are true, and R explains A

**Explanation:** The program improves water availability and promotes efficient irrigation and conservation.

**Q.13 Assertion (A):** The Sardar Sarovar Dam project covers multiple states and aims to provide irrigation in drought-prone areas.

**Reason (R):** The project will supply water to parts of Gujarat, Rajasthan, Maharashtra, and Madhya Pradesh.

a) Both A and R are true, and R explains A

b) Both A and R are true, but R does not explain A

c) A is true, R is false

d) A is false, R is true

**Answer:** a) Both A and R are true, and R explains A

**Explanation:** The dam supplies irrigation water to drought-affected regions across these states.

**Q.14 Assertion (A):** The Krishna-Godavari water dispute involves Karnataka and Andhra Pradesh opposing Maharashtra's water diversion.

**Reason (R):** Maharashtra's project at Koyna reduces water flow downstream affecting agriculture and industry in those states.

a) Both A and R are true, and R explains A

b) Both A and R are true, but R does not explain A

c) A is true, R is false

d) A is false, R is true

**Answer:** a) Both A and R are true, and R explains A

**Explanation:** Water diversion upstream reduces availability downstream, leading to interstate conflicts.

**Q.15 Assertion (A):** The practice of rooftop rainwater harvesting is declining in western Rajasthan.

**Reason (R):** The availability of water from the Indira Gandhi Canal has reduced the need for rainwater harvesting.

- a) Both A and R are true, and R explains A
- b) Both A and R are true, but R does not explain A
- c) A is true, R is false
- d) A is false, R is true

**Answer:** a) Both A and R are true, and R explains A

**Explanation:** Perennial canal water availability makes traditional rainwater harvesting less necessary.

**Q.16 Assertion (A):** Rainwater is considered the purest form of natural water in some parts of Rajasthan.

**Reason (R):** Stored rainwater, or 'palar pani', is free from contaminants commonly found in other water sources.

- a) Both A and R are true, and R explains A
- b) Both A and R are true, but R does not explain A
- c) A is true, R is false
- d) A is false, R is true

**Answer:** a) Both A and R are true, and R explains A

**Explanation:** Harvested rainwater is naturally clean and preferred for drinking in many arid areas.

**Q.17 Assertion (A):** Nearly every household in Shillong has a rooftop rainwater harvesting structure.

**Reason (R):** Shillong faces acute water shortage despite nearby areas receiving the highest rainfall in the world.

- a) Both A and R are true, and R explains A
- b) Both A and R are true, but R does not explain A
- c) A is true, R is false
- d) A is false, R is true

**Answer:** a) Both A and R are true, and R explains A

**Explanation:** Despite heavy rainfall nearby, Shillong's water scarcity encourages households to rely on rooftop rainwater harvesting.

**Q.18 Assertion (A):** Tamil Nadu is the first state in India to make rooftop rainwater harvesting compulsory for all houses.

**Reason (R):** The state has legal provisions to punish defaulters who do not install rooftop harvesting systems.

- a) Both A and R are true, and R explains A
- b) Both A and R are true, but R does not explain A
- c) A is true, R is false
- d) A is false, R is true

**Answer:** a) Both A and R are true, and R explains A

**Explanation:** Tamil Nadu enforces rooftop rainwater harvesting legally to promote water conservation.

**Category**

1. Assertion/Reason

**Date**

2025/06/21

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