Water Resources | Important Assertion/Reason | Class 10th

Here are the Assertion & Reason Questions of Chapter 3 a??Water Resourcesa??. 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
- c. A is true, 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 Indiaâ??s history since ancient times. The assertion and reason are both incorrect.

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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 missiona??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
- a) Both A and R are true, but . . .

 c) A is true but R is false

 A in false but R is true b) Both A and R are true, but R is not the correct explanation of A

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 Bhakraâ?? 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 â??temples of modern Indiaâ?? 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

ncesimplified.co **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

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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 ncesimplified.com 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 Maharashtraâ??s water diversion.

Reason (R): Maharashtraâ??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 a??palar pania??, 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 lified.com 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, Shillongâ??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

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