

# AS' SAARTHI IAS

## IRRIGATION IN RAJASTHAN

**1. What is the primary mode of irrigation in Rajasthan, covering 42% of the irrigated area?**

- A) Wells
- B) Tube Wells
- C) Canals
- D) Tanks

**Answer: B**

**Explanation:** Tube wells are the primary mode of irrigation, covering 42% of the irrigated area in Rajasthan.

**Additional Information:** Tube wells use pumps to extract water from underground aquifers, especially common in Jaipur.

**2. Which district in Rajasthan benefits significantly from canal irrigation?**

- A) Jodhpur
- B) Ganganagar
- C) Udaipur
- D) Bikaner

**Answer: B**

**Explanation:** Ganganagar benefits from canal irrigation, particularly the Indira Gandhi Canal.

**Additional Information:** The canal system is critical for transforming desert regions into fertile lands.

**3. What percentage of irrigation in Rajasthan is provided by wells?**

- A) 24%
- B) 42%
- C) 30%
- D) 10%

**Answer: A**

**Explanation:** Wells contribute 24% to the irrigation coverage in Rajasthan.

**Additional Information:** While traditional, reliance on wells has led to groundwater depletion in many regions.

**4. The Indira Gandhi Nahar Pariyojana is also known as:**

- A) Chambal Canal
- B) Narmada Canal
- C) Rajasthan Canal
- D) Bharatpur Canal

**Answer: C**

**Explanation:** The Indira Gandhi Nahar Pariyojana is also referred to as the Rajasthan Canal.

**Additional Information:** It is the longest canal system in India, transforming arid areas into productive agricultural zones.

**5. Which irrigation method is least used in Rajasthan?**

- A) Tube Wells
- B) Wells
- C) Tanks
- D) Canals

**Answer: C**

**Explanation:** Tanks are the least used method of irrigation in Rajasthan, covering only 1% of the area.

**Additional Information:** Tank irrigation is primarily found in regions like Bhilwara.

**6. Which irrigation project provides irrigation water to over 10,000 hectares in Rajasthan?**

- A) Small Irrigation Projects
- B) Medium Irrigation Projects
- C) Macro Irrigation Projects
- D) Local Irrigation Networks

**Answer: C**

**Explanation:** Macro irrigation projects cover more than 10,000 hectares.

**Additional Information:** These projects involve extensive infrastructure like canals and dams.

**7. The first multipurpose project in India, benefiting Rajasthan, was:**

- A) Chambal Project
- B) Indira Gandhi Canal

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- C) Damodar Valley Project
- D) Bhakra-Nangal Project

**Answer: D**

**Explanation:** The Bhakra-Nangal Project was India's first major multipurpose project that also benefits Rajasthan.

**Additional Information:** It provides irrigation and electricity to Rajasthan and neighboring states.

**8. Which dam in the Chambal Project has the highest hydroelectric capacity?**

- A) Jawahar Sagar
- B) Kota Barrage
- C) Gandhi Sagar
- D) Rana Pratap Sagar

**Answer: D**

**Explanation:** The Rana Pratap Sagar Dam has a hydroelectric capacity of 172 MW, the highest among Chambal dams.

**Additional Information:** It also supports the Rawatbhata Atomic Power Station.

**9. Which multipurpose project in Rajasthan is known for transforming the Thar Desert?**

- A) Bhakra-Nangal Project
- B) Chambal Project
- C) Indira Gandhi Canal
- D) Rajeev Gandhi Siddhmukh Canal

**Answer: C**

**Explanation:** The Indira Gandhi Canal has transformed the Thar Desert into a productive agricultural area.

**Additional Information:** It draws water from the Satluj and Vyas rivers via the Harike Barrage.

**10. How much of Rajasthan's irrigation is covered by drip and sprinkler systems?**

- A) 10%
- B) 3%
- C) 5%
- D) 15%

**Answer: B**

**Explanation:** Drip and sprinkler systems cover

3% of Rajasthan's irrigation.

**Additional Information:** These methods are promoted for efficient water usage in the state's arid areas.

**11. The main purpose of the Kota Barrage in Rajasthan is to:**

- A) Generate hydroelectric power
- B) Provide drinking water
- C) Support agricultural irrigation
- D) Control flooding

**Answer: C**

**Explanation:** The Kota Barrage is primarily used for agricultural irrigation in Kota and surrounding districts.

**Additional Information:** It diverts water from the Chambal River to irrigate fields across Rajasthan.

**12. Which irrigation project in Rajasthan includes the longest lift canal system?**

- A) Kanwar Sen Lift
- B) Narmada Canal
- C) Guru Jambheshwar Lift
- D) Chaudhary Kumbharam Lift

**Answer: D**

**Explanation:** The Chaudhary Kumbharam Lift is the longest lift canal system in Rajasthan's IGNP.

**Additional Information:** It supplies water to districts like Hanumangarh, Churu, Jhunjhunu, and Bikaner.

**13. Which canal project sources its water from the Narmada River for Rajasthan's arid regions?**

- A) Chambal Project
- B) IGNP
- C) Narmada Canal
- D) Gurgaon Canal

**Answer: C**

**Explanation:** The Narmada Canal sources its water from the Narmada River via the Sardar Sarovar Dam in Gujarat.

**Additional Information:** It benefits dry regions in Jalore and Barmer districts.

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**14. Which dam is the longest in Rajasthan, located in Banswara district?**

- A) Kota Dam
- B) Mahi Bajaj Sagar Dam
- C) Rana Pratap Sagar
- D) Jawahar Sagar

**Answer: B**

**Explanation:** The Mahi Bajaj Sagar Dam is the longest dam in Rajasthan.

**Additional Information:** It is part of the Mahi Project, a joint effort with Gujarat to benefit tribal areas.

**15. What is the total installed hydroelectric capacity of the Chambal Project?**

- A) 100 MW
- B) 300 MW
- C) 386 MW
- D) 250 MW

**Answer: C**

**Explanation:** The Chambal Project has an installed capacity of 386 MW, spread across Gandhi Sagar, Rana Pratap Sagar, and Jawahar Sagar dams.

**Additional Information:** It provides irrigation and electricity to both Rajasthan and Madhya Pradesh.

**16. Which Rajasthan district receives the maximum benefit from the Gang Canal?**

- A) Udaipur
- B) Ganganagar
- C) Barmer
- D) Jaipur

**Answer: B**

**Explanation:** The Gang Canal significantly benefits Ganganagar, turning arid land into fertile agricultural zones.

**Additional Information:** Constructed under Maharaja Ganga Singh, it draws water from the Satluj River.

**17. The Rajeev Gandhi Sidhmukh Canal mainly benefits which districts in Rajasthan?**

- A) Jaipur and Alwar
- B) Hanumangarh and Churu
- C) Jodhpur and Udaipur
- D) Barmer and Bikaner

**Answer: B**

**Explanation:** The Rajeev Gandhi Sidhmukh Canal serves Hanumangarh and Churu, providing irrigation to these dry regions.

**Additional Information:** It sources water from the Ravi and Vyas rivers.

**18. Which river is the source for the Bhakra-Nangal Project, benefiting Rajasthan?**

- A) Yamuna
- B) Chambal
- C) Sutlej
- D) Ganga

**Answer: C**

**Explanation:** The Sutlej River is the source of the Bhakra-Nangal Project.

**Additional Information:** It provides irrigation and hydropower benefits to multiple states, including Rajasthan.

**19. The Eastern Rajasthan Canal Project (ERCP) primarily aims to utilize surplus water from which river?**

- A) Chambal
- B) Yamuna
- C) Narmada
- D) Satluj

**Answer: A**

**Explanation:** ERCP aims to use surplus water from Chambal tributaries to provide water to 13 districts in eastern Rajasthan.

**Additional Information:** It focuses on areas that face chronic water scarcity for both drinking and irrigation.

**20. The Mahi Bajaj Sagar Dam is located on which river?**

- A) Chambal
- B) Sutlej
- C) Mahi

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D) Banas

**Answer: C**

**Explanation:** The Mahi Bajaj Sagar Dam is situated on the Mahi River, benefiting Banswara district in Rajasthan.

**Additional Information:** It is essential for irrigation and hydroelectric power in tribal areas.

**21. The main purpose of the Jawai Dam in Rajasthan is:**

- A) Irrigation and drinking water supply
- B) Flood control only
- C) Hydroelectric power generation
- D) Tourism and recreation

**Answer: A**

**Explanation:** The Jawai Dam supplies water for irrigation and drinking, particularly benefiting Pali, Jalore, and Sirohi districts.

**Additional Information:** Built on the Jawai River, it is one of the largest dams in western Rajasthan.

**22. Which irrigation technique is promoted in Rajasthan's arid areas to conserve water effectively?**

- A) Flood irrigation
- B) Drip irrigation
- C) Sprinkler irrigation
- D) Tank irrigation

**Answer: B**

**Explanation:** Drip irrigation is highly water-efficient and is promoted in Rajasthan's arid zones to conserve scarce water resources.

**Additional Information:** Drip systems minimize water loss by delivering it directly to the roots of plants.

**23. What is a key environmental concern associated with extensive tube well irrigation in Rajasthan?**

- A) Soil erosion
- B) Declining groundwater levels
- C) Salinization of river water
- D) Soil compaction

**Answer: B**

**Explanation:** Excessive use of tube wells leads to a significant decline in groundwater levels, a major concern in Rajasthan's arid climate.

**Additional Information:** Over-extraction of groundwater affects water availability for agriculture and domestic use.

**24. Which canal primarily serves to irrigate agricultural lands in Barmer and Jalore districts?**

- A) Rajasthan Canal
- B) Indira Gandhi Canal
- C) Narmada Canal
- D) Luni Canal

**Answer: C**

**Explanation:** The Narmada Canal provides irrigation water to Barmer and Jalore, transforming drylands into productive agricultural areas.

**Additional Information:** It is part of the Narmada Valley Project, with water sourced from the Sardar Sarovar Dam in Gujarat.

**25. What is the primary purpose of the Bisalpur Dam in Rajasthan?**

- A) Hydroelectric power generation
- B) Drinking water supply and irrigation
- C) Tourism development
- D) Fish farming

**Answer: B**

**Explanation:** Bisalpur Dam supplies drinking water and irrigation, primarily serving Ajmer, Jaipur, and Tonk districts.

**Additional Information:** The dam is located on the Banas River and is one of the largest water supply sources in Rajasthan.

**26. Which project aims to supply irrigation water from the Chambal River to southern Rajasthan?**

- A) Rajeev Gandhi Lift Canal
- B) Chambal Valley Project
- C) Eastern Rajasthan Canal Project (ERCP)
- D) Jawahar Sagar Dam Project

**Answer: C**

**Explanation:** The Eastern Rajasthan Canal

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Project (ERCP) plans to supply water from the Chambal River to 13 districts in southern and eastern Rajasthan.

**Additional Information:** ERCP addresses water scarcity issues, particularly in regions with limited rainfall.

**27. How does the Kanwar Sen Lift Canal benefit the districts it serves in Rajasthan?**

- A) By reducing soil erosion
- B) By supporting drip irrigation
- C) By lifting water to higher elevations for irrigation
- D) By enhancing drinking water supply only

**Answer: C**

**Explanation:** The Kanwar Sen Lift Canal lifts water to higher elevations, allowing irrigation in elevated regions of Jaisalmer and Bikaner districts.

**Additional Information:** Lift canals are essential in areas with uneven terrain, facilitating water access for agriculture.

**28. Which river supports the construction of the Bhakra and Nangal Dams, benefiting parts of Rajasthan?**

- A) Chambal
- B) Sutlej
- C) Ganga
- D) Yamuna

**Answer: B**

**Explanation:** The Sutlej River supports both the Bhakra and Nangal Dams, providing irrigation and drinking water benefits to Rajasthan.

**Additional Information:** The Bhakra-Nangal Project is one of the largest multipurpose projects in India.

**29. What is the primary goal of using sprinkler irrigation in Rajasthan's agriculture?**

- A) Increase groundwater levels
- B) Maximize water use efficiency
- C) Promote flood irrigation
- D) Encourage mono-cropping

**Answer: B**

**Explanation:** Sprinkler irrigation maximizes water use efficiency by distributing water uniformly across crops, suitable for Rajasthan's water-scarce areas.

**Additional Information:** This method conserves water while covering large areas effectively.

**30. Which of the following is a significant benefit of the Indira Gandhi Canal for Rajasthan's desert regions?**

- A) Increase in groundwater levels
- B) Reduction in crop diversity
- C) Conversion of arid land into cultivable land
- D) Increased dependence on groundwater

**Answer: C**

**Explanation:** The Indira Gandhi Canal has transformed arid desert land into fertile agricultural land, significantly boosting productivity.

**Additional Information:** The canal system is critical for water supply in Rajasthan's northwestern districts.

**31. Which river is a primary source of water for the Kota Barrage, primarily used for irrigation?**

- A) Banas
- B) Chambal
- C) Yamuna
- D) Sutlej

**Answer: B**

**Explanation:** The Chambal River feeds the Kota Barrage, which supplies irrigation water to extensive agricultural lands.

**Additional Information:** The Kota Barrage diverts Chambal's flow to irrigate fields in the Kota region and beyond.

**32. What is the main function of the Dholpur Lift Irrigation Project in Rajasthan?**

- A) Power generation
- B) Irrigation and drinking water supply
- C) Flood control
- D) Tourism enhancement

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**Answer:** B

**Explanation:** The Dholpur Lift Irrigation Project provides irrigation and drinking water to parts of Dholpur district.

**Additional Information:** Lift irrigation projects lift water to areas that are otherwise difficult to irrigate.

**33. Which river supplies water to the Jawahar Sagar Dam, a part of the Chambal Project?**

- A) Chambal
- B) Yamuna
- C) Mahi
- D) Luni

**Answer:** A

**Explanation:** The Chambal River is the source of the Jawahar Sagar Dam, which is part of the larger Chambal Project.

**Additional Information:** The Chambal Project includes multiple dams that provide irrigation and hydroelectricity.

**34. The Eastern Rajasthan Canal Project (ERCP) aims to supply drinking water to how many districts in Rajasthan?**

- A) 5
- B) 13
- C) 20
- D) 8

**Answer:** B

**Explanation:** ERCP aims to provide drinking water to 13 districts in eastern and southern Rajasthan.

**Additional Information:** This project targets regions that face chronic water scarcity for both domestic and agricultural use.

**35. Which irrigation structure is used in Rajasthan to harvest rainwater and reduce dependency on canals and wells?**

- A) Tube wells
- B) Check dams
- C) Drip systems
- D) Bore wells

**Answer:** B

**Explanation:** Check dams are used to harvest

rainwater, reducing dependency on other irrigation sources by recharging groundwater.

**Additional Information:** Check dams also help prevent soil erosion and improve water availability during dry seasons.

**36. Which project specifically supplies water to the parched regions of western Rajasthan?**

- A) Chambal Project
- B) Bhakra-Nangal Project
- C) Narmada Canal Project
- D) Jawai Dam Project

**Answer:** C

**Explanation:** The Narmada Canal Project supplies water to dry regions in western Rajasthan, especially benefiting Jalore and Barmer.

**Additional Information:** Water is sourced from the Sardar Sarovar Dam on the Narmada River in Gujarat.

**37. What percentage of Rajasthan's land area is covered by irrigation?**

- A) 30%
- B) 20%
- C) 11%
- D) 50%

**Answer:** C

**Explanation:** Approximately 11% of Rajasthan's total land area is irrigated, given the state's arid and semi-arid climate.

**Additional Information:** Limited water resources in Rajasthan restrict the extent of irrigated land.

**38. Which of the following is a major advantage of the Bhakra Canal system for Rajasthan?**

- A) Enhances rainfall patterns
- B) Reduces groundwater extraction
- C) Supports industrial use exclusively
- D) Supplies flood water

**Answer:** B

**Explanation:** The Bhakra Canal system helps reduce groundwater extraction by supplying surface water for irrigation.

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**Additional Information:** This system is crucial for sustainable water management in the state.

**39. Why is groundwater over-extraction a pressing issue in Rajasthan's irrigation practices?**

- A) Groundwater extraction is cost-effective.
- B) Groundwater reserves are depleting due to high dependence on tube wells and wells.
- C) The state has abundant groundwater.
- D) There is no alternative to groundwater.

**Answer: B**

**Explanation:** Over-dependence on groundwater due to limited surface water has led to depletion, posing long-term risks to water security.

**Additional Information:** Excessive extraction has caused a drop in groundwater levels, affecting both agriculture and domestic supply.

**40. Which river supplies water to the Gandhisagar Dam, which is part of the Chambal Project?**

- A) Chambal
- B) Yamuna
- C) Ganga
- D) Tapti

**Answer: A**

**Explanation:** The Chambal River supplies water to the Gandhisagar Dam, one of the main reservoirs of the Chambal Project.

**Additional Information:** The Gandhisagar Dam supports irrigation and hydroelectric power generation.

**41. Which river forms the basis of the Mahi Bajaj Sagar Project that benefits both irrigation and hydroelectric power generation in Rajasthan?**

- A) Chambal
- B) Banas
- C) Mahi
- D) Yamuna

**Answer: C**

**Explanation:** The Mahi River is the basis for

the Mahi Bajaj Sagar Project, which provides both irrigation and hydroelectric benefits.

**Additional Information:** The project primarily serves tribal regions in Banswara and Dungarpur districts.

**42. The Bisalpur Dam, a major water source for Jaipur and Ajmer, is built on which river?**

- A) Chambal
- B) Luni
- C) Banas
- D) Ghaggar

**Answer: C**

**Explanation:** The Bisalpur Dam is constructed on the Banas River and supplies drinking water to Jaipur, Ajmer, and Tonk.

**Additional Information:** It also provides irrigation to nearby areas, playing a vital role in regional water supply.

**43. The concept of rainwater harvesting is promoted in Rajasthan mainly to:**

- A) Increase flood risk
- B) Recharge groundwater levels
- C) Replace river water use
- D) Increase surface water only

**Answer: B**

**Explanation:** Rainwater harvesting helps recharge groundwater, which is essential in Rajasthan's water-scarce regions.

**Additional Information:** Techniques like johads (check dams) are widely used to capture and store rainwater for future use.

**44. Which of the following is an irrigation system that Rajasthan promotes due to its water-saving efficiency?**

- A) Gravity flow irrigation
- B) Surface irrigation
- C) Sprinkler irrigation
- D) Flood irrigation

**Answer: C**

**Explanation:** Sprinkler irrigation is promoted because it minimizes water loss by distributing water uniformly across fields.

**Additional Information:** This method is

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effective in Rajasthan's water-scarce regions, conserving water while covering large areas.

**45. The Luni River, which flows through Rajasthan, is primarily used for:**

- A) Drinking water
- B) Industrial purposes
- C) Irrigation in arid areas
- D) Fish farming

**Answer: C**

**Explanation:** The Luni River supports irrigation in Rajasthan's arid regions, although its waters are often saline.

**Additional Information:** The river flows through southwestern Rajasthan, benefiting areas with limited freshwater sources.

**46. How does the construction of check dams benefit farmers in Rajasthan?**

- A) Increases crop water requirements
- B) Reduces dependency on tube wells
- C) Increases reliance on flood irrigation
- D) Prevents soil erosion

**Answer: B**

**Explanation:** Check dams reduce the need for tube wells by storing rainwater and recharging groundwater.

**Additional Information:** Check dams also help prevent soil erosion and improve soil moisture for agriculture.

**47. What is the main goal of the Rajasthan Water Sector Restructuring Project?**

- A) To construct new dams
- B) To increase industrial water supply
- C) To improve water management in agriculture
- D) To promote fishing activities

**Answer: C**

**Explanation:** The Rajasthan Water Sector Restructuring Project focuses on improving water management in agriculture, especially in water-scarce regions.

**Additional Information:** This project also aims to modernize irrigation systems and conserve water resources.

**48. Which region in Rajasthan relies heavily on groundwater for its irrigation needs due to the scarcity of surface water?**

- A) Northern Plains
- B) Western Desert
- C) Eastern Rajasthan
- D) Southeastern Plateau

**Answer: B**

**Explanation:** The Western Desert region, due to limited surface water availability, relies heavily on groundwater for irrigation.

**Additional Information:** Excessive extraction has led to rapid groundwater depletion in this region.

**49. Which of the following is a significant source of irrigation in southeastern Rajasthan?**

- A) Canals from the Chambal River
- B) Tube wells
- C) Tanks
- D) Bore wells

**Answer: A**

**Explanation:** Canals from the Chambal River supply irrigation water to southeastern Rajasthan.

**Additional Information:** The Chambal Valley Project has helped expand irrigation coverage in this part of the state.

**50. What is the primary objective of the Command Area Development (CAD) program in Rajasthan?**

- A) Enhance crop variety
- B) Promote river navigation
- C) Optimize water use in canal-irrigated areas
- D) Increase urban water supply

**Answer: C**

**Explanation:** The CAD program aims to optimize water use and increase crop productivity in canal-irrigated areas.

**Additional Information:** It focuses on managing water distribution effectively in command areas to minimize water wastage.



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**51. Which river supports the Narmada Canal that extends into Rajasthan?**

- A) Chambal
- B) Tapi
- C) Narmada
- D) Yamuna

**Answer: C**

**Explanation:** The Narmada River supports the Narmada Canal, which extends into Rajasthan to benefit dry districts like Jalore and Barmer.

**Additional Information:** This canal is part of the Narmada Valley Project and supplies water to arid areas in Rajasthan and Gujarat.

**52. The purpose of the Rajiv Gandhi Lift Canal is primarily to:**

- A) Generate hydroelectricity
- B) Supply drinking water to urban areas
- C) Lift water to irrigate high-elevation regions
- D) Promote tourism

**Answer: C**

**Explanation:** The Rajiv Gandhi Lift Canal is designed to lift water to higher elevations, making irrigation possible in upland areas.

**Additional Information:** This lift canal benefits regions with uneven terrain where conventional canals are not feasible.

**53. What percentage of Rajasthan's irrigated area depends on canal systems?**

- A) 10%
- B) 18%
- C) 24%
- D) 36%

**Answer: B**

**Explanation:** Canal systems irrigate approximately 18% of the total irrigated area in Rajasthan.

**Additional Information:** Canals are a significant water source, especially in northern districts like Ganganagar and Hanumangarh.

**54. Which of the following rivers provides water for the Jawai Dam, an essential source of irrigation in Pali district?**

- A) Banas

- B) Jawai
- C) Luni
- D) Mahi

**Answer: B**

**Explanation:** The Jawai River supplies water to the Jawai Dam, supporting irrigation in Pali district.

**Additional Information:** Jawai Dam also serves as a critical water supply for both irrigation and drinking purposes.

**55. The Dholpur Lift Irrigation Project in Rajasthan draws water from which river?**

- A) Chambal
- B) Yamuna
- C) Luni
- D) Sutlej

**Answer: A**

**Explanation:** The Dholpur Lift Irrigation Project draws water from the Chambal River, supplying irrigation to Dholpur district.

**Additional Information:** This project helps irrigate otherwise water-scarce regions by lifting water to higher elevations.

**56. Which of the following dams on the Chambal River is solely dedicated to irrigation?**

- A) Rana Pratap Sagar
- B) Kota Barrage
- C) Jawahar Sagar Dam
- D) Gandhi Sagar Dam

**Answer: B**

**Explanation:** The Kota Barrage is solely dedicated to providing irrigation water to agricultural fields.

**Additional Information:** It does not produce hydroelectric power, unlike other dams on the Chambal River.

**57. The Eastern Rajasthan Canal Project (ERCP) is expected to link which river basin with the Chambal River?**

- A) Yamuna Basin
- B) Banas Basin
- C) Tapti Basin

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D) Ganga Basin

**Answer: B**

**Explanation:** The ERCP aims to connect the Banas Basin with the Chambal River to address water scarcity in eastern Rajasthan.

**Additional Information:** The project plans to divert surplus water from the Chambal River to water-deficient regions.

**58. The main purpose of the Gang Canal in Rajasthan is:**

- A) Hydroelectric power generation
- B) Irrigating arid areas in Ganganagar district
- C) Drinking water supply
- D) Flood control

**Answer: B**

**Explanation:** The Gang Canal primarily irrigates arid lands in Ganganagar, significantly boosting agricultural productivity in the region.

**Additional Information:** This canal system was initiated under Maharaja Ganga Singh's leadership.

**59. Which type of irrigation system is most suitable for Rajasthan's arid regions to ensure water conservation?**

- A) Flood irrigation
- B) Drip irrigation
- C) Surface irrigation
- D) Gravity irrigation

**Answer: B**

**Explanation:** Drip irrigation is ideal for conserving water by delivering it directly to the plant roots, making it suitable for arid areas.

**Additional Information:** This system reduces water evaporation, which is critical in Rajasthan's hot and dry climate.

**60. The Chambal Valley Project primarily benefits which two Indian states?**

- A) Rajasthan and Gujarat
- B) Rajasthan and Madhya Pradesh
- C) Rajasthan and Haryana
- D) Rajasthan and Punjab

**Answer: B**

**Explanation:** The Chambal Valley Project

benefits both Rajasthan and Madhya Pradesh by providing irrigation and hydroelectric power.

**Additional Information:** The project includes several dams along the Chambal River, supporting agriculture and energy production.

**61. How does the Indira Gandhi Canal benefit Rajasthan's agriculture sector?**

- A) It replaces groundwater for irrigation.
- B) It improves soil fertility by reducing salinity.
- C) It provides reliable surface water to transform arid lands into cultivable fields.
- D) It decreases the dependency on rain-fed crops.

**Answer: C**

**Explanation:** The Indira Gandhi Canal brings water from the Satluj and Beas rivers, transforming arid desert areas into fertile agricultural lands.

**Additional Information:** This canal system has significantly increased agricultural productivity in northwestern Rajasthan.

**62. What is a major environmental concern related to canal irrigation in Rajasthan?**

- A) Increase in rainfall
- B) Waterlogging and soil salinity
- C) Excessive water flow
- D) Reduced dependency on fertilizers

**Answer: B**

**Explanation:** Canal irrigation can lead to waterlogging and soil salinity due to excessive water use, particularly in low-lying areas.

**Additional Information:** Over time, waterlogging can damage soil structure and reduce agricultural productivity.

**63. Why is groundwater depletion a critical issue in Rajasthan's irrigation practices?**

- A) Groundwater is too abundant.
- B) It leads to soil erosion.
- C) Groundwater is over-extracted, depleting reserves and increasing irrigation costs.
- D) It increases water availability.

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**Answer:** C

**Explanation:** Over-extraction of groundwater depletes reserves, making irrigation more costly and unsustainable in the long term.

**Additional Information:** Declining groundwater levels threaten water security for agriculture and drinking purposes.

**64. Which irrigation practice is most effective in minimizing water wastage in Rajasthan's dry climate?**

- A) Flood irrigation
- B) Drip irrigation
- C) Furrow irrigation
- D) Surface irrigation

**Answer:** B

**Explanation:** Drip irrigation minimizes water wastage by delivering water directly to plant roots, making it suitable for Rajasthan's dry climate.

**Additional Information:** Drip irrigation conserves water and improves crop yield, especially in arid regions.

**65. How does the Chambal Valley Project contribute to Rajasthan's economic development?**

- A) It supports only small-scale industries.
- B) It provides irrigation, flood control, and hydroelectric power, enhancing agriculture and industry.
- C) It focuses on tourism development.
- D) It limits agricultural expansion.

**Answer:** B

**Explanation:** The Chambal Valley Project's multi-purpose benefits—irrigation, flood control, and hydroelectric power—boost both agriculture and industrial activities in Rajasthan.

**Additional Information:** This project enhances water availability, improves crop productivity, and supplies energy to industries.

**66. Why are check dams an effective solution for water scarcity in Rajasthan?**

- A) They are costly to construct.
- B) They help recharge groundwater, making water available even in dry seasons.
- C) They increase reliance on surface water.

D) They prevent the need for crop rotation.

**Answer:** B

**Explanation:** Check dams capture rainwater, which helps recharge groundwater levels, providing a sustainable water source for agriculture.

**Additional Information:** This method is particularly effective in Rajasthan, where groundwater depletion is a severe issue.

**67. Which type of irrigation system is promoted in Rajasthan to address the challenges of erratic rainfall?**

- A) Sprinkler and drip irrigation systems
- B) Flood irrigation
- C) Canal-based irrigation only
- D) Gravity irrigation

**Answer:** A

**Explanation:** Sprinkler and drip irrigation systems are promoted because they conserve water and work well even with limited water supply, making them ideal for regions with erratic rainfall.

**Additional Information:** These systems help farmers maintain crop yields despite unpredictable rainfall.

**68. What is the primary benefit of the Rajasthan Canal's extension into the Thar Desert?**

- A) To improve industrial water usage
- B) To irrigate barren land, making it agriculturally productive
- C) To increase saline water usage
- D) To boost tourism in the desert

**Answer:** B

**Explanation:** The extension of the Rajasthan Canal into the Thar Desert brings water to arid land, enabling large-scale agriculture and improving food security.

**Additional Information:** This project has greatly impacted the desert regions, increasing crop production and employment.

**69. How does the Mahi Bajaj Sagar Project benefit the tribal population of Banswara?**

- A) By promoting industrial development

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B) By providing irrigation and hydroelectric power, improving agricultural output and electricity access

C) By focusing solely on tourism

D) By diverting water for urban use only

**Answer: B**

**Explanation:** The Mahi Bajaj Sagar Project provides irrigation and electricity, improving agricultural productivity and access to power in tribal areas.

**Additional Information:** It is essential for the socio-economic development of Banswara's tribal population.

**70. Why is the Bhakra Canal considered vital for Rajasthan's water supply?**

A) It supplies water to both rural and urban areas.

B) It generates a large amount of hydroelectric power.

C) It is the primary source for surface water irrigation.

D) It allows fishing and tourism only.

**Answer: A**

**Explanation:** The Bhakra Canal supplies water to both rural and urban areas, supporting irrigation and domestic water needs.

**Additional Information:** It is crucial for water-scarce areas, reducing dependence on groundwater.

**71. What is a long-term environmental impact of excessive canal irrigation in Rajasthan?**

A) Increased soil fertility

B) Groundwater recharge

C) Soil salinization and reduced agricultural productivity

D) Increase in crop diversity

**Answer: C**

**Explanation:** Excessive canal irrigation can lead to waterlogging and soil salinization, which degrades soil quality and reduces crop yields over time.

**Additional Information:** Proper drainage systems are essential to prevent such issues in canal-irrigated areas.

**72. Why is the Eastern Rajasthan Canal Project (ERCP) significant for water management in Rajasthan?**

A) It only provides hydroelectric power.

B) It supplies additional water to drought-prone areas in eastern Rajasthan.

C) It solely benefits urban areas.

D) It focuses on exporting water.

**Answer: B**

**Explanation:** The ERCP diverts surplus water to drought-prone areas, helping mitigate water shortages in eastern Rajasthan.

**Additional Information:** This project aims to improve water access for both agriculture and drinking purposes.

**73. Which irrigation system is best suited to Rajasthan's hilly terrains for even water distribution?**

A) Drip irrigation

B) Sprinkler irrigation

C) Canal irrigation

D) Flood irrigation

**Answer: B**

**Explanation:** Sprinkler irrigation provides uniform water distribution and is ideal for uneven or hilly terrains, ensuring efficient water use.

**Additional Information:** This system is suitable for crops on slopes, where traditional methods may not be feasible.

**74. How does the Narmada Canal Project contribute to addressing water scarcity in Rajasthan's western regions?**

A) By improving rainfall patterns

B) By supplying irrigation water to dry areas in Jalore and Barmer

C) By promoting the use of saline water

D) By supplying water exclusively to urban areas

**Answer: B**

**Explanation:** The Narmada Canal Project delivers water to arid regions, transforming them into productive agricultural areas.

**Additional Information:** This project is

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critical for water-scarce regions, enhancing agriculture and local economies.

## 75. The Command Area Development (CAD) program helps Rajasthan by:

- A) Encouraging mono-cropping
- B) Increasing water usage in irrigation
- C) Improving water management in irrigated areas
- D) Expanding desert land

**Answer: C**

**Explanation:** The CAD program focuses on efficient water use and distribution, optimizing irrigation practices to maximize productivity.

**Additional Information:** It also includes initiatives to prevent waterlogging and improve soil health.

## 76. Which factor most affects the availability of irrigation water in Rajasthan?

- A) Population density
- B) Rainfall variability and climate conditions
- C) Soil composition
- D) Proximity to rivers

**Answer: B**

**Explanation:** Rajasthan's irrigation water availability is heavily affected by irregular rainfall and arid climate, making water management crucial.

**Additional Information:** The state's climate poses challenges for consistent water supply, especially during dry seasons.

## 77. Which practice is promoted in Rajasthan to address the issue of low groundwater recharge?

- A) Intensive tube well usage
- B) Surface irrigation
- C) Rainwater harvesting and check dam construction
- D) Drilling additional wells

**Answer: C**

**Explanation:** Rainwater harvesting and check dam construction improve groundwater recharge, addressing water scarcity effectively.

**Additional Information:** These practices

help conserve water in regions where rainfall is sparse and unpredictable.

## 78. What is the impact of groundwater depletion on agricultural productivity in Rajasthan?

- A) Increased crop yields
- B) Reduced soil quality
- C) Increased costs and reduced productivity due to limited water availability
- D) Improved water quality

**Answer: C**

**Explanation:** Groundwater depletion limits water availability, increasing irrigation costs and reducing crop productivity.

**Additional Information:** Sustainable water management practices are essential to preserve groundwater resources for future use.

## 79. Why are projects like the Bisalpur Dam critical for urban areas in Rajasthan?

- A) They are exclusively for flood control.
- B) They primarily support agriculture.
- C) They supply drinking water to major cities like Jaipur and Ajmer.
- D) They prevent groundwater extraction.

**Answer: C**

**Explanation:** Projects like the Bisalpur Dam supply drinking water to urban areas, ensuring a reliable source for growing populations.

**Additional Information:** As urban populations expand, the need for dedicated water sources becomes increasingly important.

## 80. How do lift irrigation projects benefit Rajasthan's upland regions?

- A) By relying on natural river flow
- B) By diverting saline water
- C) By transporting water to elevated areas, making irrigation feasible
- D) By increasing groundwater dependence

**Answer: C**

**Explanation:** Lift irrigation projects transport water to higher elevations, enabling irrigation in upland areas with limited access to natural flow.

**Additional Information:** These projects are

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essential in hilly or elevated regions where gravity-fed irrigation isn't possible.

**81. Which irrigation project helps mitigate desertification in Rajasthan's Thar Desert?**

- A) Bisalpur Dam
- B) Eastern Rajasthan Canal Project
- C) Indira Gandhi Canal Project
- D) Jawai Dam Project

**Answer: C**

**Explanation:** The Indira Gandhi Canal Project helps combat desertification by transforming arid land in the Thar Desert into productive farmland.

**Additional Information:** It supports agriculture and settlements in Rajasthan's desert areas, improving food security.

**82. How does the use of drip irrigation improve crop yield in Rajasthan's arid regions?**

- A) It provides uniform water distribution directly to plant roots, reducing water loss.
- B) It encourages frequent flooding.
- C) It requires minimal equipment and resources.
- D) It relies heavily on groundwater.

**Answer: A**

**Explanation:** Drip irrigation delivers water directly to plant roots, conserving water and promoting healthier crop growth.

**Additional Information:** This method is particularly effective in arid regions, where water conservation is crucial.

**83. What is a major environmental concern with increasing canal irrigation in Rajasthan's low-lying areas?**

- A) Reduced soil moisture
- B) Risk of soil salinization due to waterlogging
- C) Decreased crop production
- D) Higher water costs

**Answer: B**

**Explanation:** Canal irrigation can lead to waterlogging in low-lying areas, causing soil salinization that negatively affects crop growth.

**Additional Information:** Proper drainage

systems are needed to prevent soil degradation in these areas.

**84. Which irrigation project serves both irrigation and drinking water purposes in Rajasthan?**

- A) Chambal Project
- B) Mahi Bajaj Sagar Project
- C) Rajeev Gandhi Lift Canal
- D) Bisalpur Dam

**Answer: D**

**Explanation:** The Bisalpur Dam supplies drinking water to cities like Jaipur and Ajmer, as well as irrigation to nearby farmlands.

**Additional Information:** It is one of the largest drinking water projects in Rajasthan.

**85. Which of the following is a critical reason for implementing rainwater harvesting in Rajasthan?**

- A) To increase surface water dependency
- B) To reduce reliance on groundwater by enhancing recharge rates
- C) To promote only large-scale agriculture
- D) To replace river water irrigation

**Answer: B**

**Explanation:** Rainwater harvesting reduces dependency on groundwater by replenishing aquifers, which is essential in Rajasthan's water-scarce regions.

**Additional Information:** Structures like tanks and check dams are used to capture rainwater.

**86. What is a primary advantage of the Eastern Rajasthan Canal Project (ERCP) for the state?**

- A) It focuses solely on industrial water needs.
- B) It connects water-scarce eastern areas to surplus rivers, addressing water shortages.
- C) It provides irrigation exclusively to urban areas.
- D) It is primarily for tourism.

**Answer: B**

**Explanation:** The ERCP channels surplus water to eastern Rajasthan, alleviating water shortages in agricultural and domestic sectors.

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**Additional Information:** It targets drought-prone areas to improve water availability and agricultural output.

**87. Why is the Command Area Development (CAD) program essential for Rajasthan's irrigated lands?**

- A) It reduces the need for irrigation infrastructure.
- B) It optimizes water use in irrigated areas to prevent waterlogging and enhance productivity.
- C) It focuses on desert land irrigation.
- D) It promotes groundwater depletion.

**Answer: B**

**Explanation:** The CAD program improves water use efficiency and controls water distribution to prevent over-irrigation issues like waterlogging.

**Additional Information:** It promotes sustainable practices, enhancing productivity in irrigated areas.

**88. Which region in Rajasthan depends on the Mahi Bajaj Sagar Dam for its water supply?**

- A) Eastern plains
- B) Aravalli hills
- C) Southern tribal regions
- D) Thar Desert

**Answer: C**

**Explanation:** Southern tribal regions, particularly Banswara and Dungarpur, rely on the Mahi Bajaj Sagar Dam for irrigation and hydroelectric power.

**Additional Information:** This dam supports agriculture and electricity needs, aiding local communities.

**89. How does groundwater depletion impact long-term agriculture in Rajasthan?**

- A) Increases crop yield
- B) Lowers production costs
- C) Restricts sustainable agriculture by reducing water availability
- D) Encourages more crop variety

**Answer: C**

**Explanation:** Groundwater depletion reduces water availability, limiting sustainable agriculture and increasing long-term production costs.

**Additional Information:** Over-reliance on groundwater can lead to severe water shortages and soil degradation.

**90. What is the primary objective of lift irrigation systems in Rajasthan?**

- A) To support natural flow irrigation only
- B) To provide water to elevated areas for agricultural purposes
- C) To replace drip irrigation
- D) To promote urban development

**Answer: B**

**Explanation:** Lift irrigation systems pump water to higher elevations, enabling irrigation in areas where natural flow is insufficient.

**Additional Information:** These systems are crucial for hilly regions, where traditional methods are not feasible.

**91. Why is Rajasthan's reliance on tube wells for irrigation concerning?**

- A) Tube wells are a renewable resource.
- B) Tube wells rely on declining groundwater resources, leading to depletion.
- C) Tube wells increase groundwater levels.
- D) Tube wells only affect urban areas.

**Answer: B**

**Explanation:** Tube wells extract groundwater, which is rapidly depleting due to overuse, causing long-term water scarcity issues.

**Additional Information:** Sustainable practices are needed to balance groundwater use with recharge rates.

**92. What is a major goal of the Rajiv Gandhi Lift Canal in Rajasthan?**

- A) To generate hydroelectricity
- B) To lift and distribute water to high-elevation regions for irrigation
- C) To serve as a flood control structure
- D) To focus only on drinking water

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**Answer:** B

**Explanation:** The Rajiv Gandhi Lift Canal elevates water to irrigate higher-altitude areas that lack natural water flow.

**Additional Information:** This project supports agriculture in regions with uneven terrain, expanding arable land.

**93. Which factor most affects the success of rain-fed agriculture in Rajasthan?**

- A) Soil type
- B) Monsoon rainfall variability
- C) River proximity
- D) Crop variety

**Answer:** B

**Explanation:** Monsoon rainfall variability is a major factor, as Rajasthan's rain-fed agriculture heavily depends on consistent seasonal rainfall.

**Additional Information:** Droughts or erratic rainfall can drastically reduce crop yields in rain-fed areas.

**94. Why is rainwater harvesting essential for villages in arid parts of Rajasthan?**

- A) It decreases groundwater levels.
- B) It provides an alternative water source and supports groundwater recharge.
- C) It requires advanced technology.
- D) It promotes water wastage.

**Answer:** B

**Explanation:** Rainwater harvesting captures rainwater, offering a reliable water source while recharging groundwater.

**Additional Information:** This method is especially valuable in areas with limited access to other water sources.

**95. What is a benefit of implementing drip and sprinkler irrigation systems over traditional methods in Rajasthan?**

- A) They encourage water waste.
- B) They are easy to set up in flood-prone areas.
- C) They reduce water use by distributing water efficiently to crops.
- D) They require no maintenance.

**Answer:** C

**Explanation:** Drip and sprinkler systems reduce water usage by applying water directly to plants, conserving resources in arid regions.

**Additional Information:** These systems support sustainable agriculture by reducing evaporation and runoff.

**96. How does the construction of tanks benefit water storage in Rajasthan?**

- A) Tanks only store saline water.
- B) They increase surface water evaporation.
- C) They provide storage for rainwater, especially valuable during dry periods.
- D) They replace the need for groundwater.

**Answer:** C

**Explanation:** Tanks capture and store rainwater, providing a critical resource during dry spells and reducing groundwater dependency.

**Additional Information:** Tank systems are a traditional water conservation method that remains effective in Rajasthan's dry climate.

**97. Why are the canal systems in northern Rajasthan significant for the state's agriculture?**

- A) They supply consistent irrigation to desert and semi-arid areas.
- B) They promote dependency on rainfall.
- C) They increase groundwater extraction.
- D) They are mainly for flood control.

**Answer:** A

**Explanation:** Canal systems provide a reliable water source to semi-arid and desert areas, supporting consistent agricultural productivity.

**Additional Information:** Canals like the Gang Canal and the Indira Gandhi Canal have transformed arid areas into fertile farmland.

**98. How does water scarcity influence crop choices in Rajasthan?**

- A) Encourages high-water crops
- B) Promotes drought-resistant crops
- C) Limits crop rotation
- D) Increases dependence on river water



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**Answer:** B

**Explanation:** Water scarcity leads farmers to choose drought-resistant crops, which require less water and withstand dry conditions.

**Additional Information:** Crops like millet and gram are commonly grown in Rajasthan for their low water needs.

**99. Why is the Jawahar Sagar Dam significant for both irrigation and hydroelectric power generation in Rajasthan?**

- A) It supports urban-only water needs.
- B) It only generates power.
- C) It provides irrigation and power generation, benefiting agriculture and industry.
- D) It is solely a tourist attraction.

**Answer:** C

**Explanation:** The Jawahar Sagar Dam supplies water for irrigation and generates hydroelectric power, aiding both agriculture and industry.

**Additional Information:** It is part of the Chambal Valley Project, contributing to the region's economy.

**100. What is a major impact of the Indira Gandhi Canal on the socio-economic development of Rajasthan's desert areas?**

- A) Reduced soil fertility
- B) Increased desertification
- C) Transformation of arid areas into productive agricultural zones
- D) Exclusive industrial water supply

**Answer:** C

**Explanation:** The canal has transformed arid areas into fertile agricultural land, promoting socio-economic growth and improving livelihoods.

**Additional Information:** This project has enabled settlement and farming in previously uninhabitable desert regions.