

## Chapter-03

## WATER

## QUESTION BANK

## SUB-TOPIC: - Water Scarcity and the need for water conservation and management

LEVEL-1

- 1: Which of these is the major source of fresh water in India?  
(a) Ground water (b) Ocean water (c) Tanks (d) Water falls
2. How much of the earth surface is covered with water?  
(a) About 1/4 (b) About 1/2 (c) About 3/4 (d) About 2/3
- 3: Which of the following is a source of fresh water?  
(a) Precipitation (b) Surface runoff (c) Groundwater (d) All the above
4. How is fresh water obtained?
5. What is Hydrological cycle?
6. What cause water longing (scarcity) in most places?
7. What is water scarcity?

LEVEL-2

- 8: Explain any two consequences of changing crop pattern due to irrigation.
- 9: Examine the ill effects of industrialization and urbanization on water resources.
- 10: How have intensive industrialization and urbanization posed a great pressure on existing fresh water resources in India? Explain.
- 11: Water resources are depleting fast in India and water is a necessity for life. Suggest three measures to conserve water.

- 12: "Water is a very important and critical resource in India." Support the statement by explaining any three points.
- 13: Analyze three major causes of water scarcity in India.
- 14: Why is the need for water increasing day by day? Explain three reasons.
15. State the causes of growing scarcity of water?
- 16.Explain how water becomes a renewable resource.
- 17.What are main causes for water scarcity? \*
- 18.Even though India has perennial and non-perennial rivers and various sources of water, we suffer with water scarcity. Critically examine with three examples.
- 19.'Three-fourths of the earth's surface is covered with water but there is still scarcity of water across the globe.' Explain giving three reasons. \*(3 marks)
- 20.Why is the need of water increasing day-by-day? explain 3 reasons? \*(3 marks)
- 21.Is it possible that an area or region may have ample water resource but it is still facing water scarcity? Explain? \*
- 22.What will lead to falling groundwater levels, adversely affecting water availability and food security of the people?
- 23.Why is groundwater a highly overused resource?
- 24.Imagine your neighbor switches on the motor to fill the overhead tank and often forgets to switch it off. The water overflows most of the time. What will be the consequences of this careless behavior?
- 25.In a situation where water is sufficiently available to meet the needs of the people, but, the area still suffers from water scarcity. Why?
- 26.Why entire life stands threatened?

LEVEL-3

27. There is a yawning gap between demand and supply of water. Why?
28. "Availability of water varies from place to place and time to time in India." Explain the statement with one example of each?
29. Describe the importance of water in life?

30: Explain any four reasons responsible for water scarcity in India.

31. Write a note on the fact and figures of water resources.

32. Post-independent India witnessed intensive industrialization and urbanization, creating vast opportunities for us. Justify this statement in terms of water scarcity. OR

33. Industrialization and urbanization have aggravated water crisis in India. Support this with suitable arguments. \*(3 marks)

34. Examine the ill effects of industrialization and urbanization on water resources. \*(3 marks)

35. How has the ever increasing number of industries in India made worse position by exerting pressure on existing fresh water resources? Explain\*(3 marks, Board 2018)

36. Why do we need to conserve and manage our water resources?

**SUB-TOPIC: - Multi-Purpose River Projects and Integrated Water Resource Management**

LEVEL-1

37: Bamboo drip irrigation is prevalent in which of the following state?  
(a) Rajasthan (b) Meghalaya (c) Karnataka (d) Madhya Pradesh

38: Narmada Bachao Andolan is related to :  
(a) Sardar Sarovar (b) Bhakra Nangal (c) Rihand (d) Tehri

39: Who among the following proclaimed dams as the "temples of modern India"?  
(a) Rajendra Prasad (b) Jawaharlal Nehru (c) Sardar Patel (d) Mahatma Gandhi

40: According to Falken Mark, a Swedish expert, water stress occurs when water availability is between (a) 1000 to 1200 cubic meter per person / year (b) 1000 to 1050 cubic meter per person

/ year (c) 600 to 900 cubic meter per person / year (d) 1000 to 1600 cubic meter per person / year

41: In which one of the following states *palar pani* is considered the purest form of natural water?  
(a) Gujarat (b) Rajasthan (c) Madhya Pradesh (d) Chhattisgarh

42. Define the term 'dam'.

43. How are dams classified?

44. Dams are referred to as 'The Temples of Modern India' why? \*(1 mark)

45. Why did Jawaharlal Nehru proudly proclaimed the dams as the 'temples of modern India'?

#### LEVEL-2

46: Which multipurpose project is built on River Satluj How this project has led to the development of the country?

47: What is a multipurpose river valley project? Give any four objectives of the multi-purpose river valley projects.

48. What is a river valley project?

49. What are the objectives of Multipurpose River Valley Projects? Give examples?

50. Why are dams referred to as multipurpose projects?

51. What are the advantages of dams?

52. Multi-purpose projects and large dams have come under great scrutiny and opposition for a variety of reasons.

53. Why did most of the objections to multipurpose project arise? OR

54. Explain any three reasons due to which large dams have come under great opposition in recent years. \*(3 marks)

55. Explain any 3 disadvantages of dams. \*

56. Evaluate the role of large scale developmental projects in accelerating the loss of forests in India. \*(3 marks)

57. Compare the advantages and disadvantages of multi-purpose river projects.

### LEVEL-3

58. How will you provide efficient management of our water resources?

59. Name the ancient Hydraulic structures of India.

60. In ancient India, along with the sophisticated hydraulic structures, there existed an extraordinary tradition of water-harvesting system. Explain any three of them.

### **SUB-TOPIC: - Rainwater Harvesting**

#### LEVEL-1

61: Rooftop rainwater harvesting system in Rajasthan is known as :  
(a) Guls (b) Kuls (c) Tankas (d) Bauris

62: Which of the following is not a method of water harvesting used in Rajasthan?  
(a) Johads (b) Khadins (c) Guls (d) Tankas

63: Name the state in India which has made roof top rainwater harvesting structure compulsory to all the houses across the state.  
(a) Gujarat (b) Rajasthan (c) Tamil Nadu (d) Karnataka

64. Which water is recharged by roof-top rainwater harvesting technique?

65. Name the diversion channels of western Himalayas?

66. Name two rainwater harvesting structure built in Jaisalmar.

67. Name two rainwater harvesting structures built in Rajasthan?

68. In Gendathur, a remote backward village in Mysore, a remote backward village in Mysuru, Karnataka, villagers have installed, in their household's rooftop, rainwater harvesting system to meet their water needs. \*Why has Gendathur become a much known name?

69. Which state in India has made roof rain top water harvesting mandatory?

LEVEL-2

70: Describe the procedure for rooftop rainwater harvesting.

71: What is palar pani? What is its significance in the arid regions of Rajasthan?

72: Describe any three different rainwater harvesting systems practiced in India.

73: Explain three traditional methods of rainwater harvesting in India.

74. What do you mean by rainwater harvesting?

75: Why is rooftop rainwater harvesting important in Rajasthan? Explain.

76. How did rainwater harvesting gain popularity? OR

77. Water harvesting system was alternative way in both socioeconomically and environmentally. Support the statement with 3 examples. \*(3 marks)

78. Why is there a need to develop rainwater harvesting system in India? Explain. (3 marks)

79. Describe any three rainwater harvesting system practiced in India. \*\*\* (3 marks)

80. Discuss how modern adaptations of traditional rainwater harvesting methods are being carried out to conserve and store water.

81. What are the benefits of rainwater harvesting?

LEVEL-3

82: Why are different water harvesting systems considered a viable alternative in a country like India.

83. Why different harvesting systems considered a viable alternative both socio-economically and environmentally in a country like India? \*(5 marks)

84. What were traditionally built rainwater harvesting across India? \*(5 marks)

85. What was the traditional rainwater harvesting system practiced in arid and semi-arid areas (Rajasthan)? OR

86. Discuss how rainwater harvesting in semi-arid regions of Rajasthan is carried out. \*\*

87. In Gendathur, a remote backward village in Mysore, a remote backward village in Mysuru, Karnataka, villagers have installed, in their household's rooftop, rainwater harvesting system to meet their water needs. Why has Gendathur become a much known name? What values does it generate?

**SUB-TOPIC: - MAP SKILL (DAMS OF INDIA)**

LEVEL-1

88: Hirakud dam is built on which river?  
 (a) Chenab (b) Mahanadi (c) Krishna (d) Satluj

89: Salal Dam is built on which river?  
 (a) Chenab (b) Mahanadi (c) Krishna (d) Satluj

90: Nagarjuna Sagar Dam is built on which river? (a) Chenab (b) Mahanadi (c) Krishna (d) Satluj

91: On which one of the following rivers Mettur dam is constructed?  
 (a) River Kaveri (b) River Krishna (c) River Godavari (d) River Mahanadi

92. On which river the Sardar Sarovar Dam built?

93. Name any two river valley projects or dams which have led to social movements.

LEVEL-2

94: Explain any three reasons due to which large dams have come under great opposition in recent years.

**NOTE:** Guls or Kuls irrigation– western Himalayas, Canal irrigation– Nagaland \*\*, Bamboo drip irrigation– Meghalaya\*\*

<i>River</i>	<i>Dams constructed</i>	<i>State/place</i>
Mahanadi	Hirakud Dam	Odisha
Satluj	Bhakhra Nangal Dam	Himachal Pradesh in northern India
Krishna	Nagarjuna Sagar Dam	Nalgonda District, Telangana State.
Chenab	Salal Dam*	Jammu and Kashmir.
Narmada	Sardar Sarovar Project*	Gujarat
Bhagirathi	Tehri Dam	Uttarakhand
Ganges	Naraura dam	Uttar Pradesh
Chambal River	Rana Pratap Sagar Dam	Rajasthan
Chambal	Gandhi Sagar Dam	Madhya Pradesh

**95.** Show the following in the India Map: -

- I. Dam on river Narmada
- II. Tehri Dam
- III. Sardar Sarovar dam\*\*
- IV. A dam on River Ganges
- V. A dam on river Chenab
- VI. Rana Pratap Sagar Dam
- VII. Bhakhra Nangal Project
- VIII. Gandhi Sagar Dam
- IX. Hirakud Dam (Board 2019)
- X. River of Sorrow– Damodar river
- XI. A project on River Satluj- Bhakra Nangal project





**LIST OF IMPORTANT DAMS IN INDIA**

SNo.	Dams	Power Generation (MW)	Height	State
1.	Bhakra Dam	1325 MW	740 ft	Himachal Pradesh
2.	Baglihar Dam	900 MW	472 ft	Jammu & Kashmir
3.	Tehri Dam	2400 MW	855 ft	Uttarakhand
4.	Nagarjuna Sagar Dam	816 MW	407 ft.	Telangana, Andhra Pradesh
5.	Bansagar Dam	425 MW	220 ft.	Madhya Pradesh
6.	Hira Kund Dam	347 MW	200 ft.	Odisha
7.	Sardar Sarovar Dam	1450 MW	535 ft.	Gujarat
8.	Indirasagar Dam	1000 MW	302 ft.	Madhya Pradesh
9.	Bhavanisagar Dam	1920 MW	105 ft	Tamil Nadu
10.	Idukki Dam	780 MW	554 ft.	Kerala
11.	Mettur Dam	840 MW	120 ft	Tamil Nadu
12.	Srisaillam Dam	1670 MW	476 ft	Telangana, Andhra Pradesh
13.	Koyna Dam	1960 MW	339 ft.	Maharashtra
14.	Tungabhadra Dam	72 MW	162 ft	Karnataka

15.	Pong Dam	396 MW	436 ft	Himachal Pradesh
16.	Mullaperiyar Dam	175 MW	176 ft	Tamil Nadu
17.	Nathpa Dam	1500 MW	205 ft	Himachal Pradesh
18.	Rana Pratap Sagar Dam	172 MW	177 ft	Rajasthan
19.	Chamera Dam	1071 MW	226 ft	Himachal Pradesh
20.	Rangit Dam	60 MW	148 ft	Sikkim

