

# National Testing Agency

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## Water Resources and Watershed Management

<b>Group Number :</b>	1
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<b>Group Maximum Duration :</b>	0
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## Water Resources and Watershed Management-1

<b>Section Id :</b>	603489323
<b>Section Number :</b>	1
<b>Section type :</b>	Online

<b>Mandatory or Optional :</b>	Mandatory
<b>Number of Questions :</b>	50
<b>Number of Questions to be attempted :</b>	50
<b>Section Marks :</b>	100
<b>Enable Mark as Answered Mark for Review and Clear Response :</b>	Yes
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	603489581
<b>Question Shuffling Allowed :</b>	Yes

**Question Number : 1 Question Id : 60348915621 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

Which hypothesis best explains the origin of water on the earth surface or in the oceans

1. Late Veneer through extraplanetary sources
2. Early planetary cooling
3. Inside-out through volcanic degassing
4. Through planetary accretion

**Options :**

60348958717. 1

60348958718. 2

60348958719. 3

60348958720. 4

**Question Number : 2 Question Id : 60348915622 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

How old are the oceans?

1. 4.5 Billion Years
2. 4.0 Billion Years
3. 3.8 Billion Years
4. 3.5 Billion Years

**Options :**

60348958721. 1

60348958722. 2

60348958723. 3

60348958724. 4

**Question Number : 3 Question Id : 60348915623 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

Which one is true about water on the Mars?

1. The liquid water had disappeared after 1.5 Billion Years of Mars formation
2. Water on Mars is currently found on the surface as several km thick layers of ice.
3. Mars has water trapped in the polar ice caps.
4. All of these

**Options :**

60348958725. 1

60348958726. 2

60348958727. 3

60348958728. 4

**Question Number : 4 Question Id : 60348915624 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

According to United Nations World Water Development Report, the number of people across the globe facing severe physical water scarcity for at least one month per year is

1. 19%
2. 41%
3. 52%
4. 68%

**Options :**

60348958729. 1

60348958730. 2

60348958731. 3

60348958732. 4

**Question Number : 5 Question Id : 60348915625 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

World largest agriculture and domestic water consumer nation/s are

1. India and the USA
2. China and the USA
3. India and Russia
4. India and China

**Options :**

60348958733. 1

60348958734. 2

60348958735. 3

60348958736. 4

**Question Number : 6 Question Id : 60348915626 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

Screening and straining in water treatment is a

1. Biological process
2. Physical process
3. Chemical process
4. Physiochemical process

**Options :**

60348958737. 1

60348958738. 2

60348958739. 3

60348958740. 4

**Question Number : 7 Question Id : 60348915627 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

Jal Jeevan Mission, a scheme of the central government, aims to:

1. Explain the importance of water for life to citizens
2. Ensuring the safe and adequate drinking water supply through taps to every household
3. Propagate the concept of water conservation among the school going children
4. Promoting rainwater harvesting in the urban and rural areas

**Options :**

60348958741. 1

60348958742. 2

60348958743. 3

60348958744. 4

**Question Number : 8 Question Id : 60348915628 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

Which city in Orissa is the first Indian city to achieve 24/7 quality drinking water supply

1. Sambalpur
2. Puri
3. Bhuvneshwar
4. Cuttack

**Options :**

60348958745. 1

60348958746. 2

60348958747. 3

60348958748. 4

**Question Number : 9 Question Id : 60348915629 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

According to you, the concepts of rainwater harvesting and water conservations

1. were known to the Vedic Indians
2. were familiarized by Mughals
3. were propagated by Britishers
4. were introduced by the UNO

**Options :**

60348958749. 1

60348958750. 2

60348958751. 3

60348958752. 4

**Question Number : 10 Question Id : 60348915630 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

The focus of the "Per Drop More Crop" scheme is to enhance water use efficiency in the agriculture sector

1. By promoting rainwater harvesting at the farm level.
2. Through the sprinkler and drip irrigation.
3. By promoting surface irrigation schemes in dry areas
4. Through minimizing the use of groundwater in agriculture

**Options :**

60348958753. 1

60348958754. 2

60348958755. 3

60348958756. 4

**Question Number : 11 Question Id : 60348915631 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

The stage of groundwater development in India is estimated at

1. 44%
2. 52%
3. 63%
4. 71%

**Options :**

60348958757. 1

60348958758. 2

60348958759. 3

60348958760. 4

**Question Number : 12 Question Id : 60348915632 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

Indigenous rainwater harvesting techniques practised across the country are

1. Similar in design and concepts
2. Differs in design and follows cultural values
3. Differs in design and follows climate and topography of the area
4. Differs in design and is due to the availability of construction resources

**Options :**

60348958761. 1

60348958762. 2

60348958763. 3

60348958764. 4

**Question Number : 13 Question Id : 60348915633 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

Conjunctive use of water means

1. Mixing the raw surface water from various sources at the treatment plant
2. Using surface water and groundwater alternatively
3. Mixing the surface and groundwater at the treatment plan
4. Using surface water and groundwater judiciously depending upon resource availability

**Options :**

60348958765. 1

60348958766. 2

60348958767. 3

60348958768. 4

**Question Number : 14 Question Id : 60348915634 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

The water use efficiency of Indian agriculture is

1. 24%
2. 38%
3. 46%
4. 54%

**Options :**

60348958769. 1

60348958770. 2

60348958771. 3

60348958772. 4

**Question Number : 15 Question Id : 60348915635 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**



National Project on Aquifer Management (NAQUIM) is a flagship programme of Govt. of India that focuses on the management of groundwater resources by

1. Identifying and mapping the aquifers
2. Restricting the groundwater use
3. Identifying the source of contaminants to groundwater
4. All of these are part of NAQUIM

**Options :**

60348958773. 1

60348958774. 2

60348958775. 3

60348958776. 4

**Question Number : 16 Question Id : 60348915636 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

The Composite Water Resources Management report of Niti Aayog, 2018 highlighted

1. Mismanagement of dams in India
2. Lack of rainwater harvesting guideline
3. Depletion of groundwater in a few major cities
4. Pollution problem across surface water bodies in major cities

**Options :**

60348958777. 1

60348958778. 2

60348958779. 3

60348958780. 4

**Question Number : 17 Question Id : 60348915637 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

The application of space technology in water resource management is being encouraged

1. As it allows access to remote and inaccessible areas
2. Due to comprehensive temporal and spatial coverage
3. Low cost and fast turn-around time
4. Due to all of the above features

**Options :**

60348958781. 1

60348958782. 2

60348958783. 3

60348958784. 4

**Question Number : 18 Question Id : 60348915638 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

The water use efficiency

1. Reflects the optimum utilization of water in a sector of a region
2. Is a ratio of harvested rainwater and total rainfall of a region
3. Is a ratio between effective water use and actual water withdrawal
4. Represents the state of water uses versus water resource availability

**Options :**

60348958785. 1

60348958786. 2

60348958787. 3

60348958788. 4

**Question Number : 19 Question Id : 60348915639 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

Which one is not a hydrologic model?

1. SWAT
2. TOPMODEL
3. MIKE SHE
4. ERDAS

**Options :**

60348958789. 1

60348958790. 2

60348958791. 3

60348958792. 4

**Question Number : 20 Question Id : 60348915640 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

The Gondwana, Tipams, Lathis, Cuddalore formations are examples of

1. Unconsolidated aquifers
2. Semi-Consolidated aquifers
3. Consolidated aquifers
4. Mountainous aquifers

**Options :**

60348958793. 1

60348958794. 2

60348958795. 3

60348958796. 4

**Question Number : 21 Question Id : 60348915641 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

The volume of total replenishable groundwater resources in India is highest for

1. Ganges basin
2. Brahmaputra basin
3. Indus basin
4. Godavari basin

**Options :**

60348958797. 1

60348958798. 2

60348958799. 3

60348958800. 4

**Question Number : 22 Question Id : 60348915642 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

Choose the right combination for the following statement, "the level of groundwater development is very high in the states of.....".

1. Punjab, Rajasthan and Haryana
2. Punjab, Haryana and Uttar Pradesh
3. Uttar Pradesh, Rajasthan and Gujarat
4. Punjab, Maharashtra and Uttar Pradesh

**Options :**

60348958801. 1

60348958802. 2

60348958803. 3

60348958804. 4

**Question Number : 23 Question Id : 60348915643 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

India is ranked \_\_\_\_\_ in terms of average precipitation in depth (mm per year)

1. First
2. Second
3. Fourth
4. Tenth

**Options :**

60348958805. 1

60348958806. 2

60348958807. 3

60348958808. 4

**Question Number : 24 Question Id : 60348915644 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

Which combination reflects the correct statistics for the Himalayan river basins

1. Drain approximately 35% of the geographical area and contribute about 65% of the annual water flux
2. Drain approximately 45% of the geographical area and contribute about 75% of the annual water flux
3. Drain approximately 35% of the geographical area and contribute about 75% of the annual water flux
4. Drain approximately 45% of the geographical area and contribute about 65% of the annual water flux

**Options :**

60348958809. 1

60348958810. 2

60348958811. 3

60348958812. 4

**Question Number : 25 Question Id : 60348915645 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

Artificial Neural Networks (ANNs), Fuzzy Logic (FL), Genetic Algorithms (GAs) are

1. Soft-commuting techniques
2. Hydrological models
3. Computer-based GIS programs
4. Statistical tools

**Options :**

60348958813. 1

60348958814. 2

60348958815. 3

60348958816. 4

**Question Number : 26 Question Id : 60348915646 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

Which Indian state has the highest number of large dams?

1. Madhya Pradesh
2. Maharashtra
3. Gujarat
4. Rajasthan

**Options :**

60348958817. 1

60348958818. 2

60348958819. 3

60348958820. 4

**Question Number : 27 Question Id : 60348915647 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

Which option reflects the best use of a Piezometer?

1. Measuring the height of the water column in a well
2. Allow water sample collection of water quality characterization
3. A deep well which can be used to withdraw water during drought conditions
4. Used as a mean of groundwater recharge

**Options :**

60348958821. 1

60348958822. 2

60348958823. 3

60348958824. 4

**Question Number : 28 Question Id : 60348915648 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

Evaporation loss across the peninsular basins is

1. >60%
2. >50%
3. <50%
4. <40%

**Options :**

60348958825. 1

60348958826. 2

60348958827. 3

60348958828. 4

**Question Number : 29 Question Id : 60348915649 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

The term classified rivers represent the rivers that

1. are international in nature
2. flow between two or more states
3. are entangled in water sharing disputes among the states
4. are the small coastal independent rivers

**Options :**

60348958829. 1

60348958830. 2

60348958831. 3

60348958832. 4

**Question Number : 30 Question Id : 60348915650 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

Droughts in India are connected to

1. El Niño phenomena
2. La Niña phenomena
3. Weakening of monsoon
4. Local factors affecting the climate

**Options :**

60348958833. 1

60348958834. 2

60348958835. 3

60348958836. 4

**Question Number : 31 Question Id : 60348915651 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**



Food insecurity is highly prevalent in

1. Latin America and the Caribbean
2. Sub-Saharan Africa
3. South Asia
4. Middle east region

**Options :**

60348958837. 1

60348958838. 2

60348958839. 3

60348958840. 4

**Question Number : 32 Question Id : 60348915652 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

Which number rightly reflects India's per capita water footprint

1. 1,243 m<sup>3</sup>
2. 1,071 m<sup>3</sup>
3. 980 m<sup>3</sup>
4. 760 m<sup>3</sup>

**Options :**

60348958841. 1

60348958842. 2

60348958843. 3

60348958844. 4

**Question Number : 33 Question Id : 60348915653 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

India's groundwater use is higher than

1. Entire Europe
2. Entire Africa
3. China and USA
4. China and Brazil

**Options :**

60348958845. 1

60348958846. 2

60348958847. 3

60348958848. 4

**Question Number : 34 Question Id : 60348915654 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

The current agricultural electricity consumption in India is about\_\_\_\_\_of the total annual energy consumption

1. 12%
2. 18%
3. 23%
4. 27%

**Options :**

60348958849. 1

60348958850. 2

60348958851. 3

60348958852. 4

**Question Number : 35 Question Id : 60348915655 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

Which crop/food product is responsible for maximum virtual water export from India

1. Sugarcane/Sugar
2. Beef
3. Wheat
4. Rice

**Options :**

60348958853. 1

60348958854. 2

60348958855. 3

60348958856. 4

**Question Number : 36 Question Id : 60348915656 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

Currently, Indian cities are frequently facing urban flooding. According to you, which three factors are primarily responsible for it

- A. Climate change
- B. Increased Impervious surfaces
- C. Enforcement of lakes and rivers
- D. Improper and old drainage system
- E. Topography of the region
- F. Unplanned urbanization
- G. Cyclonic storm

1. A, B and C
2. B, C and D
3. B, C and F
4. B, E and G

**Options :**

60348958857. 1

60348958858. 2

60348958859. 3

60348958860. 4

**Question Number : 37 Question Id : 60348915657 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

Which one is not a part of the watershed plus activities

1. Vermicompost production in the watershed
2. Providing sewing machine/local embroidery skills to women
3. Construction of dams and embankments
4. Nursery development and management

**Options :**

60348958861. 1

60348958862. 2

60348958863. 3

60348958864. 4

**Question Number : 38 Question Id : 60348915658 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

The current live storage capacity of large and medium dams in Indian is

1. 634 BCM
2. 423 BCM
3. 257 BCM
4. 198 BCM

**Options :**

60348958865. 1

60348958866. 2

60348958867. 3

60348958868. 4

**Question Number : 39 Question Id : 60348915659 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

Which one is not an integral component of the National River Linking Project

1. Himalayan Rivers Development
2. Coastal River Basin Links
3. Peninsular Rivers Development
4. Inter-state Links

**Options :**

60348958869. 1

60348958870. 2

60348958871. 3

60348958872. 4

**Question Number : 40 Question Id : 60348915660 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

Which one is not a common groundwater contaminant in India

1. Uranium
2. Flouride
3. Selenium
4. Arsenic

**Options :**

60348958873. 1

60348958874. 2

60348958875. 3

60348958876. 4

**Question Number : 41 Question Id : 60348915661 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

According to the BIS, the acceptable limit of Fluoride in groundwater is

1. 2 mg/l
2. 1.5 mg/l
3. 1 mg/l
4. 0.8 mg/l

**Options :**

60348958877. 1

60348958878. 2

60348958879. 3

60348958880. 4

**Question Number : 42 Question Id : 60348915662 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

The summer monsoon in India, known as

1. Northeast (NE) monsoon
2. Southwest (SW) monsoon
3. Southeast (SE) monsoon
4. Northwest (NW) monsoon

**Options :**

60348958881. 1

60348958882. 2

60348958883. 3

60348958884. 4

**Question Number : 43 Question Id : 60348915663 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

The northern Indian Ocean experience two peak cyclone activities, which are they

1. September to November and April to June
2. October to December and March and June
3. October to December and April to June
4. October and January and March to May

**Options :**

60348958885. 1

60348958886. 2

60348958887. 3

60348958888. 4

**Question Number : 44 Question Id : 60348915664 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

The Objective of Water Quality Monitoring (NWMP) is

1. Rational planning of pollution control strategies and their prioritization
2. Assessing the nature and extent of pollution control needed in different water bodies or their part
3. Understanding the environmental fate of different pollutants
4. All of these

**Options :**

60348958889. 1

60348958890. 2

60348958891. 3

60348958892. 4

**Question Number : 45 Question Id : 60348915665 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

The current operational capacity of all STPs in India is about

1. 22,600 MLD
2. 26,900 MLD
3. 34,300 MLD
4. 46,800 MLD

**Options :**

60348958893. 1

60348958894. 2

60348958895. 3

60348958896. 4

**Question Number : 46 Question Id : 60348915666 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

Which one is not a traditional method of water filtration/purification in India

1. Boiling
2. Chlorination
3. Alum
4. Earthen pot

**Options :**

60348958897. 1

60348958898. 2

60348958899. 3

60348958900. 4

**Question Number : 47 Question Id : 60348915667 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**



Nalgonda technique related to purification or decontamination of water having excess

1. Arsenic
2. Nitrate
3. Fluoride
4. Iron

**Options :**

60348958901. 1

60348958902. 2

60348958903. 3

60348958904. 4

**Question Number : 48 Question Id : 60348915668 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

It is expected that under climate change Indian monsoon system may

1. become weak
2. become strong
3. remain the same
4. not much is known

**Options :**

60348958905. 1

60348958906. 2

60348958907. 3

60348958908. 4

**Question Number : 49 Question Id : 60348915669 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

Which global city has an exemplary urban water management system?

1. Hongkong
2. New York
3. Singapore
4. Shanghai

**Options :**

60348958909. 1

60348958910. 2

60348958911. 3

60348958912. 4

**Question Number : 50 Question Id : 60348915670 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

**Correct Marks : 2 Wrong Marks : 0**

Model similar to Water Sensitive Urban Design practiced in China, is known as

1. Sustainable Urban Drainage Systems
2. Green Infrastructure
3. Sponge city
4. Low impact development

**Options :**

60348958913. 1

60348958914. 2

60348958915. 3

60348958916. 4