



# CHEMISTRY

## NCERT - NCERT Chemistry(TELUGU)

### WATER

#### Exercise

1. What is sewage ? Explain why it is harmful to discharge untreated sewage into rivers or seas?



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2. Why should oils and fats not be released into the drain? Explain.



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3. Describe the steps involved in getting clarified water from waste water.



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4. Name two chemicals used to disinfect the water.



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5. Outline your role as an active citizen in relation to sanitation.



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**6.** What would happen if there are no microbes that break down wastes in sewage?



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**7.** What is sludge ? Explain how it is treated ?



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**8.** Untreated human excreta is a health hazard.

Explain.



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**9.** Explain the relationship between sanitation and disease.



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**10.** Why are soft drinks stored in PET bottles?

what is full form of PET



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**11.** What points would you like to address in the letter for you panchayat officer about drainage system in your village/town?



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**12.** Is there a check dam or any other water conservation unit in your village? Write a note on it.



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**13.** Write about types of plastics



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**14.** Have you got any doubt about diseases caused by untreated water? List them out.



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**15.** Bakelite, melamine are which type of plastics



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**16.** Prepare at least 5 slogans on "Don't waste water.



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**17.** Explain the function of bar screens in a waste water treatment plant.



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**18.** If you see water running off from a public tap, what would you do about it?



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**19.** Tooth brush handle, comb comes under which type of plastic?



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**20.** Prepare a logo for International Water Day.



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**21.** Is the water in seas and oceans useful to us? Why?



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**22.** What is fresh water ? Where is it available?



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**23.** How much fresh water is available on the earth?



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**24.** Is it essential to protect and preserve water resources and water?



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**25.** What would you do for the cause 'water for life'?



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**26.** What is meant by sewage ?



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**27.** What is the use of bar screen at sewage treatment plant?



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**28.** How is the flow of water blocked sometimes in drainage canals?



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**29.** How can a closed drainage system be useful for us?



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**30.** How can you conserve water in your home?



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**31.** Could we say fresh water is a precious resource Discuss.



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**32.** How can you say soil is precious resource?

Give reasons.





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**33.** What do you think will happen if we do not take care of the sources of water ?



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**34.** Is it right to leave untreated waste water in this manner?



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**35.** How can you conserve water in your home?



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**36.** When was the international decade for action on 'water for life' declared.



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**37.** For which purposes are we using fresh water?



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**38.** What are the steps required in waste water at treatment plant ?



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**39.** What is meant by sewage ?



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**40.** What is the chemical substance used for killing microbes in waste water?



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**41.** How is water distributed on the globe ?  
How much of fresh water is available to us ?



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**42.** How is fresh water distributed over the globe?



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**43.** What steps are to be taken for prevention of water pollution?



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**44.** What are the contaminants of sewage?

Classify them.



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**45.** What is meant by 'Chlorination' and

'Aeration'?



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**46.** What is causing water scarcity ? Write the ways which are degrading the quality and quantity of natural supply of fresh water.



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**47.** How can you say that the next cold war could be over Water ?



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**48.** How can we conserve water ? Write some practices that can be adopted.



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**49.** Only \_\_\_\_\_ percent of water is available to be used as fresh water:

A. 1

B. 10

C. 2

D. 97

**Answer:**



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**50.** This is a liquid waste:

A. sea water

B. mineral water

C. sewage

D. Slit

**Answer:**



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**51. The sludge is decomposed by:**

- A. symbiotic bacteria
- B. anaerobic bacteria
- C. aerobic bacteria
- D. nitrogen fixing bacteria

**Answer:**





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**52.** The ultimate source of water is:

A. Sea

B. canal

C. river

D. Rain

**Answer:**



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**53.** The water found below water table is called:

A. spring water

B. chlorine water

C. mineral water

D. fluorine water

**Answer:**



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54. A gas which kills the bacteria present in drinking water is:

A. hydrogen

B. chlorine

C. carbondioxide

D. Oxygen

**Answer:**



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55. The purest sample of water, is \_\_\_\_

A. Rain water

B. pond water

C. river water

D. ocean water

**Answer:**



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56. Inorganic impurities present in sewage are\_\_\_\_\_

A. nitrates

B. phosphates

C. Metals

D. All of these

**Answer:**



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57. Anaerobic bacteria decompose the sludge and produce\_\_\_\_\_

A. coal gas

B. producer, gas

C. Water gas

D. biogas

**Answer:**



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58. The best drainage system is \_\_\_\_\_

A. open type

B. closed

C. underground

D. None of these

**Answer:**



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59. Sludge is removed with \_\_\_\_\_

A. Skimmer

B. Scraper

C. Sand drying machines

D. Ozone and chlorine gases

**Answer:**



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**60.** Statement A: Chlorine kills harmful disease causing organisms present in waste water.

Statement B: Aeration allows growth of microbes that break down wastes.

A. Both A and B are true

B. A is true but B is false

C. A is false but B is true

D. Both A and B are false

**Answer:**



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**61.** Statement A: Nitrates, phosphates, metals etc. are examples for organic impurities. Statement B: Human faeces, animal waste, pesticides, fruit and vegetable waste etc. are examples for inorganic impurities

A. Both A and B are true

B. A is true but B is false

C. A is false but B is true

D. Both A and B are false

**Answer:**



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**62.** Which is true about the process Aeration ?

(i) It is used for removal of bacteria in water.(ii)

Chlorine is sent into the water for eradication

of bacteria (iii) In this method water is

pumped into the air(iv)Bacteria in this water

get killed as a result of exposure of sun rays

A. i, iii and iv only

B. i, ii and iii only

C. iii and iv only

D. All of these

**Answer:**



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**63.** Which of the following is not true about sewage(i) Sewage is more in rural areas(ii) Sewage water is useful for crop plants (iii) Nitrates are one of the impurities of

sewage(iv) Draining out sewage water is good method for cleaning the area

A. i, ii and iv only

B. ii, iii and iv only

C. i,ii and iii only

D. All are wrong

**Answer:**



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**64.** Purifying water by spraying it into sunlight to kill bacteria is called:

A. transpiration

B. filtration

C. evaporation

D. aeration

**Answer:**



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65. A simple technique that breaks down waste material and helps in the growth of organisms:

A. Percolation technique

B. Filtration method

C. Aeration

D. Sublimation

**Answer:**



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**66.** The disease causing germs in waste water can be killed by using the gas:

A. Chlorine

B. Oxygen

C. Nitrogen

D. Hydrogen

**Answer:**



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67. International decade for action on Water for life' is \_\_\_

A. 2000 - 2010

B. 2005-2015

C. 2010-2020

D. 2020-2030

**Answer:**



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68. Available fresh water on land is \_\_\_\_\_ of the total water

A. 0.97

B. 0.02

C. 0.01

D. 0.28

**Answer:**



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69. Oldest VanaSamrakshana Samithi in A.P.

is \_\_\_\_\_

A. Nallavally

B. Kamepalli

C. Arasavelli

D. All the above

**Answer:**



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70. When do we celebrate World Water Day?

A. 38617

B. 38433

C. 38494

D. 38586

**Answer:**



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71. The waste water from the bathroom can be led into \_\_\_\_\_ to grow vegetables:

- A. fields
- B. kitchen garden
- C. orchard
- D. Canals

**Answer:**



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72. Biogas is produced by

A. aerobic

B. Anaerobic

C. methanogenic

D. None

**Answer:**



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73. Solids like faeces which settle at the bottom of a large tank during treatment in water plant is called:

A. silt

B. pond scum

C. emulsion

D. sludge

**Answer:**



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74. This allows growth of microbes that breakdown wastes

A. chlorine

B. nitrogen

C. aeration

D. fermentation

**Answer:**



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75. Rearrange the following sentences in a correct order (i) A skimmer removes the floatable solids like oil and grease (ii) Solid like faeces settle at the bottom and are removed with a scraper. This is the sludge (iii) The water is allowed to settle in a large tank which is sloped towards the middle. (iv) Water so cleared is called clarified water

A. ii,i,iv,iii

B. iv,ii,i,iii

C. iii,i,ii,iv

D. iii,ii,i,iv

**Answer:**



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**76.** Fill in the Blanks and give reasons:Cleaning of water is a process of removing\_\_\_\_\_



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77. Fill in the Blanks and give reasons:Waste water released by houses is called



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78. Fill in the Blanks and give reasons:Dried \_\_\_\_\_ is used as a manure.



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79. Fill in the Blanks and give reasons:Drains get blocked by\_\_\_\_\_and\_\_\_\_\_



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