



# PHYSICS

## BOOKS - TARGET PUBLICATION

### PROPERTIES OF NATURAL RESOURCES

Solved

1. Fill in the blanks with the appropriate term :

The excess of water vapour during the night or at dawn is transformed into .....



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**2.** Fill in the blanks with the appropriate term:

The capacity of air to hold moisture depends upon the \_\_\_\_\_ of the air.



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**3.** Fill in the blanks with the appropriate term :

Water doesnot have a shape but has definite ..... And .....



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4. Fill in the blanks with the appropriate term :

While freezing the ..... Of water is lowered .



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5. Fill in the blanks with the appropriate term :

..... soil has a high water holding capacity .



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6. Fill in the blanks with the appropriate term :

..... Soil has Ph 7.



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7. Choose the correct alternative :

Density is equal to .....

A. mass / volume

B. volume/mass

C. volume/ temperature

D. temperature/mass

**Answer: A**



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**8. Choose the correct alternative :**

Anomalous behaviour of water is shown at  
.....  $^{\circ}\text{C}$  .

A. 0

B. 4

C. 1

D. 100

**Answer: D**



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**9. Choose the correct alternative :**

Which of the following is a solvent ?

A. water

B. salt

C. sugar

D. none of these

**Answer: A**



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**10. Choose the correct alternative :**

Which soil is made up of the mineral called silicon dioxide (quartz) ?

A. sandy

B. sedimentary

C. clay

D. slit

**Answer: A::D**



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**11. Choose the correct alternative :**

Which soil is used in cosmetics ?

A. terracotta

B. multani

C. shadu

D. kaolin



**Answer: A**



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**12.** Right or wrong ? If wrong , write the correct sentence :

The pressure exerted by air is called atmospheric pressure .



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**13.** Right or wrong ? If wrong , write the correct sentence :

Bernoulli's principle states that the pressure of air increases when the velocity of air increases .



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**14.** Right or wrong ? If wrong , write the correct sentence :

Seasons are an effect of the difference in air pressure .



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**15.** Right or wrong ? If wrong , write the correct sentence :

The density of water is less than that of ice .



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**16.** Right or wrong ? If wrong , write the correct sentence :

Sea water is a bad conductor of electricity .



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**17.** Right or wrong ? If wrong , write the correct sentence :

The substance in which a solute dissolves is called a solvent .



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**18.** Right or wrong ? If wrong , write the correct sentence :

Sandy soil has low capacity for holding water.



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**19.** Right or wrong ? If wrong , write the correct sentence :

The property of soil of being easily shaped is called as plasticity .



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20. Right or wrong ? If wrong , write the correct sentence :

Soil pH less than 6 or higher than 8 ,  
diminishes the soil fertility .



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21. Odd one out :

Air , water , paper , soil



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22. Odd one out :

Soyabean , peanut , lentil , wheat .



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23. Match the following :

With whom should I pair up ? :

	Group 'A'		Group 'B'
i.	Air	a.	Excretion
ii.	Water	b.	Scattering of light
iii.	Soil	c.	Plasticity



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24. Match the following :

Match the fundamental quantities given in group 'A' with their units given in group 'B':

	Group 'A'		Group 'B'
i.	Mass	a.	gm/cc
ii.	Density	b.	gm
iii.	Volume	c.	cc



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25. How are we different :

Distinguish between sandy soil and silt soil .







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**26.** Answer in one sentence :

Which are the gases present in air ?



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**27.** Use your brain power!

What is the effect of increased temperature on the pressure of air?



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**28.** What are the states in which water is found?



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**29.** What are the ingredients of soil?



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**30.** Answer in one sentence :

How does soil texture gets disturbed ?



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**31.** Write answers to the given question in your own words:

How is light scattered by the air?



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**32.** Write answers to the given question in your own words:

Explain the various properties of water.





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**33.** Write answers to the given question in your own words:

Why is the density of seawater more than that of rain water?



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**34.** Write answers to the given question in your own words:

What is the importance of good soil structure?



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**35.** Write answers to the given question in your own words:

What are the various uses of soil?



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**36.** Write answers to the given question in your own words:

What is the need and importance of soil testing from the point of view of farmers?



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**37.** Write answers to the given question in your own words:

What is the importance of air in transmission of sound?





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**38.** Write answers to the given question in your own words:

Why should a glass bottle completely filled with water never be kept in a freezer?



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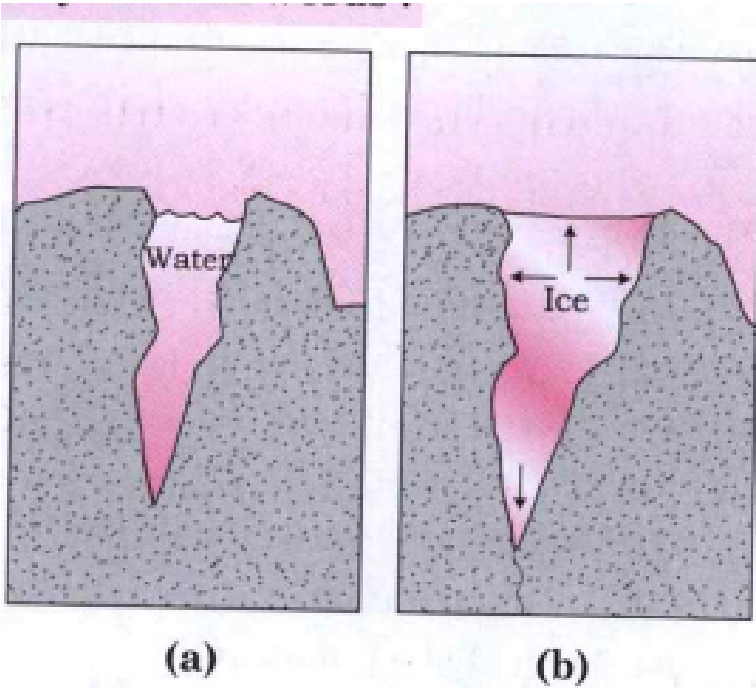
**39.** Answer in your own words :

State the uses of water .



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40. Explain the picture in your own words:



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**41.** Answer the following :

What will happen if the amount of water vapour in the air increases ?



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**42.** Answer the following :

In summer , wet clothes dry quickly , but in the rains , they do not why is this so ?



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**43.** What is meant by soil? How is soil formed?



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**44.** Use your brain power!

Why is it difficult to plough clay soil?



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**45.** Answer the following :

Which soil is suitable for cultivation ? Why ?





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**46.** Answer the following :

What will happen if only one crop is grown repeatedly in the soil ?



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**47.** Answer the given question orally:

Will the mass of water change when its state changes during the transformation of liquid water into ice?



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**48.** Why is it said that

Air is a homogenous mixture of various gases.



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**49.** Why is it said that

Water is universal solvent.



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**50.** Why is it said that

There is no alternative to water for cleaning purposes.



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**51.** What are the uses of the various gases in air?



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**52.** Is there any atmospheric pressure on the moon?



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**53.** What change takes place in a balloon on filling air in it ?



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**54.** Use your brain power!

What would happen if all the air surrounding us is removed?



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**55.** Use your brain power!

Will sound be heard in space?



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**56.** Take a bucket of water . Drop given articles in it . Make separate lists of the article which sink in the water and those that float on it :  
( eraser , sharpner , pencil , spoon , compass , scale , rubber band )



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**57.** Take some water in a pot and add few pieces of ice to it . Observe what happens .  
Why do we see the ice float on water ?







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**58.** Keep a glass full of water in the freezer for five to ten minutes . Then take it out and observe it carefully . From which part in the glass does water first start freezing ?



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**59.** Use your brain power!

In cold countries how do aquatic animals

remain alive even after the rivers or lake freeze in winter?



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**60.** Take two big glasses of water . Add 4-5 spoonfuls of salt to the water in one glass and dissolve it completely . Now place a potato in the water in the second glass . The potato will sink . Take out the potato from that glass and put it in the salt water and observe .



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**61.** Why is it easier to swim in the sea than in a  
well or a lake ?



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**62.** Use your brain power!

Why is it easy to plough sandy soil?



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**63.** Use your brain power!

What is the water holding capacity of silt soil?



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**64.** Oral work :

In which state does water occur below  $4^{\circ}\text{C}$  ?



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**65.** Oral work :

Why is water known as the universal solvent ?



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**66.** Oral work :

What is the pH of alkaline soil ?



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**67. Oral work :**

Name the leguminous crops cultivated to restore the fertility of soil .



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**68. Oral work :**

Mention the tests used to find out the characteristics of soil .



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**69.** Fill in the blanks :

The proportion of large particles is high in  
..... soil .



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**70.** Fill in the blanks :

..... Is measured in g/cc .



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**71.** Give scientific reasons for the following

Glass bottle completely filled with water should never be kept in a freezer



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**72.** Answer in one word :

Soil used for making crockery .



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**73.** Answer in one word :

Capacity of air to hold water vapour .



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**74.** Answer in one word :

The medium for the transmission of sound .



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**75.** Answer the following :

What are the uses of water ?



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**76.** Answer the following :

Describe the types of soil .



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