

2ND FEBRUARY 2011

DURATION 000 MIN | PAPER CODE 0000

Soil And Water

NAME

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CLASS

DIVISION

.....

ROLL NUMBER

SCHOOL

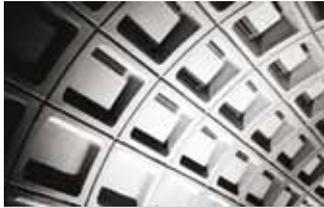
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TEACHER

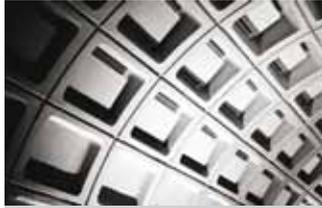
There are x questions in the paper. All are compulsory.
Put a tick or circle the option which is your answer.
Show your working on a separate sheet of paper wherever you need to.
For calculations take pi as 22/7.
Please review your answers carefully before submitting. Once submitted,
the answers will NOT be changed.



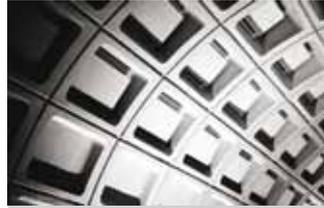
Q
000 At which of these places will you find soil?



Garden



Farm



Roadside



Construction Site

A
Only farm

B
Only garden and farm

C
Only garden, farm and roadside

D
All - garden, farm, roadside and construction site

Q
000 Students collected soil from different places and studied what the samples contained?

Radha: My soil is better, it can hold more water.
Ashok: My soil is better, it does not hold too much water.
Zina: My soil is better, it has more worms in it.

A
Only Radha

B
Only Ashok

C
Only Zina

D
The total amount of water evaporating every year is decreasing

Q
000 Rajeev was asked to make a table with some living things and non-living things. He made the table shown below.

Living	Nonliving
Seeds	Magnet
Silk	Clouds
Trees	Wool
Worms	Iron

Which of the following has he put under the wrong heading?

A
Silk

B
Wool

C
Seeds

D
Worm

Q
000 The image alongside shows one effect of a water shortage. People are queueing up to fill water for household needs. The water crisis is becoming worse in many countries. What does this water shortage mean?

A
The total amount of water on Earth is decreasing

B
The amount of rainfall in all countries is decreasing

C
The amount of readily available fresh water is decreasing

D
The total amount of water evaporating every year is decreasing

Q
000 If the soil holds 1 water it means its percolation rate is 2 and the water passes through its particles 3. Which of the following words correctly fit the blanks above?

A
1: more; 2: higher; 3: easily

B
1: less; 2: higher; 3: easily

C
1: more; 2: higher; 3: with difficulty

D
1: less; 2: lower; 3: with difficulty



Q
000 **The Cat and the Fox**

A cat and a fox were having a conversation. The proud fox boasted about his cleverness. "Why, I know at least a hundred tricks to get away from our common enemies, the dogs," he said.

"I know only one trick," said the cat, "you should teach me some of yours!"

"Well, maybe someday, when I have the time, I may teach you a few of the simpler ones," replied the fox airily.

Just then they heard the barking of a pack of dogs in the distance. The barking grew louder and louder - the dogs were coming in their direction! At once the cat ran to the nearest tree and climbed onto its branches, well out of reach of any dog. "This is the trick I told you about, the only one I know," she called down to the fox. "Which of your hundred tricks are you going to use?"

The fox sat there trying to decide what to do. Nearer and nearer came the dogs. When it was too late, the fox decided to run for it. But even before he started running, the dogs were upon him, and that was the end of the fox, bag full of tricks and all.



Where was the cat when the dogs came by?

- | | | | |
|---------------------------|----------------------------|------------------------------|--------------------------------|
| A
On the ground | B
Under the tree | C
Above the ground | D
Among the branches |
|---------------------------|----------------------------|------------------------------|--------------------------------|

What did the fox talk to the cat about?

- | | | | |
|---------------------------|----------------------------|------------------------------|--------------------------------|
| A
On the ground | B
Under the tree | C
Above the ground | D
Among the branches |
|---------------------------|----------------------------|------------------------------|--------------------------------|

Q
000 **Study the following and answer the questions ___ to ___.**

Pawan sorts some materials into two different groups and notes down their properties. They are listed in the following table:

Group I	Group II
Cannot be beaten into thin sheets	Can be beaten into thin sheets
When one end is in contact with a hot object, the other end does not become hot quickly	When one end is in contact with a hot object, the other end becomes hot very quickly
Cannot be turned into thin wires	Can be turned into thin wires

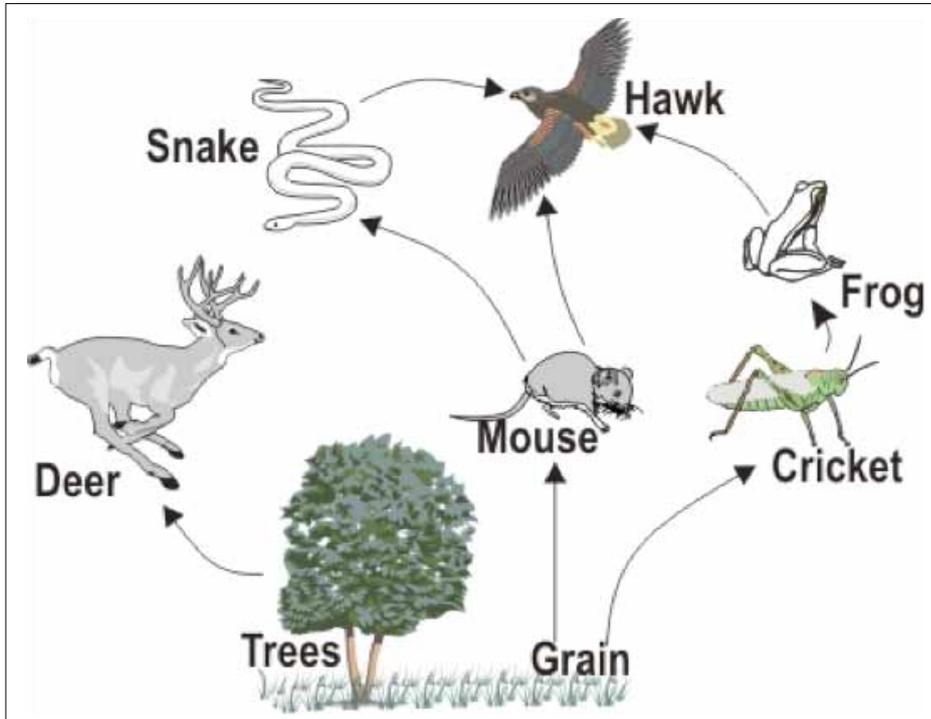
Which of the following statements could be INCORRECT?

- | | | | |
|--|--|---|---|
| A
Materials of group II can be used to make bells. | B
Materials of group I are generally not shiny and hard. | C
Materials of group I are generally less dense than materials of group II. | D
Materials of group II can be used to make electric shock-proof materials. |
|--|--|---|---|



Q
000

If the number of crickets in this food web was to reduce drastically, the most likely result will be



Where was the cat when the dogs came by?

A

more competition between

B

increase in number of

C

decrease in available

D

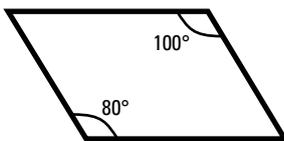
decrease in the number of

Q
000

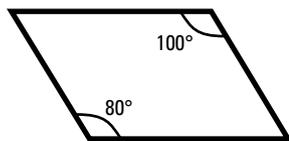
Based on the measurements given, which of these is a parallelogram?

(Note: Figures are not to scale.)

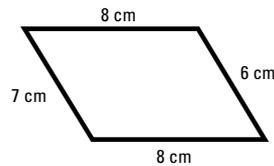
A



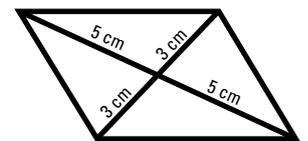
B



C



D

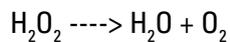


Q
000

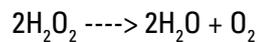
A catalyst is a substance that is present during a reaction between other reactants but does not take part in the reaction. It does not undergo any chemical change. Its purpose is to make a reaction proceed faster or slower as desired or make it happen with less energy inputs.

Manganese dioxide (MnO₂) is a catalyst used in the decomposition of hydrogen peroxide (H₂O₂) into water and oxygen. Which of the following is the correct way to represent the reaction?

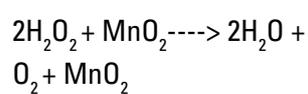
A



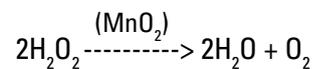
B



C



D





Q

000 Choose the sentence that is punctuated correctly.

A

He, was born on May 15
1998.

B

He was born, on, May 15,
1998.

C

He was born on May 15,
1998.

D

He was born, on May 15,
1998.

Q

000 In which one of the options is the sentence correctly punctuated?

A

Dr. Gupta wrote out a
prescription for some
Tablets a Tonic and a
Cough syrup

B

Dr. gupta wrote out a
prescription for some
tablets, a tonic and, a
cough syrup.

C

Dr. Gupta wrote out a
prescription for some
tablets, a tonic and a
cough syrup.

D

Dr. Gupta wrote out a
prescription for some
tablets, a tonic and, a
Cough Syrup

Q

000 Which of the following represents the production of washing soda?

A

$$\text{Ca(OH)}_2 + \text{Cl}_2 \rightarrow \text{CaOCl}_2 + \text{H}_2\text{O}$$

B

$$\text{NaCl} + \text{H}_2\text{O} + \text{CO}_2 + \text{NH}_3 \rightarrow \text{NH}_4\text{Cl} + \text{NaHCO}_3$$

C

$$\text{Na}_2\text{CO}_3 + 10\text{H}_2\text{O} \rightarrow \text{Na}_2\text{CO}_3 \cdot 10\text{H}_2\text{O}$$

D

$$\text{CaSO}_4 \cdot \frac{1}{2} \text{H}_2\text{O} + \frac{1}{2} \text{H}_2\text{O} \rightarrow \text{CaSO}_4 \cdot 2\text{H}_2\text{O}$$