

## CET – Science Section – Practice Question

Please note – These question are for assisting candidates. The level of questions in the CET can similar or higher. Format of question paper will be similar to that given on the website (used for CET 1 – September, November, and December2011. We welcome contribution of additional questions from candidates / institutes. The questions are within the level of 10<sup>th</sup> standard of all HS Boards in India.

### Chemistry

State of Matter (Learn as much as you like) <http://chemtutor.com/unit.htm>

<http://www.101science.com/Chemistry.htm#>

Acid-Base - <http://www.shodor.org/UNChem/basic/ab/>

### Physics

Atomic Structure - <http://www.allaboutcircuits.com/worksheets/atomic.html>

Static Electricity - <http://www.allaboutcircuits.com/worksheets/static.html>

Voltage, current, & resistance - <http://www.allaboutcircuits.com/worksheets/eir.html>

Sources of Electricity - <http://www.allaboutcircuits.com/worksheets/sources.html>

Energy, work & power - <http://www.allaboutcircuits.com/worksheets/ewp.html>

Magnetism - <http://www.allaboutcircuits.com/worksheets/magnet1.html>

[www.101science.com](http://www.101science.com)

<http://library.thinkquest.org/10796/ch5/ch5q.htm>

[physics@amersol.edu.pe](mailto:physics@amersol.edu.pe)

Choose the correct alternative from the given options

- Sodium bicarbonate is known as .....  
(a) washing soda (b) baking soda (c) soda ash (d) mohr's salt
- Heating sodium bicarbonate releases ..... gas  
(a)carbon dioxide (b) oxygen (c) hydrogen (d) nitrogen
- ..... is used in fire extinguishers  
(a) sodium carbonate (b) sodium bicarbonate (c) calcium carbonate (d) copper sulphate
- Sodium carbonate is known as .....  
(a) washing soda (b) baking soda (c) green vitriol (d) alum
- ..... is a variety of calcium carbonate  
(a) glass (b) paper (c) marble (d) black ink
- ..... is used in preparation of tooth paste and tooth powder  
(a) sodium carbonate (b) calcium carbonate (c) potassium carbonate (d) copper sulphate
- ..... is an efflorescent substance

(a) calcium carbonate (b) sodium carbonate (c) potassium carbonate (d) sodium bicarbonate

8. Ferrous sulphate is commonly known as

(a) quick lime (b) chalk (c) blue vitriol (d) green vitriol

9. Crystalline ferrous sulphate is ..... in colour

(a) yellow (b) blue (c) green (d) red

10. Copper sulphate is commonly known as .....

(a) blue vitriol (b) green vitriol (c) alum (d) quick lime

11. Sulphuric acid is a .....

(a) alkali (b) acid (c) salt (d) solid

12. Sodium hydroxide is a

(a) gas (b) solid (c) alkali (d) acid

13. Dry ice is .....

(a) a type of stone (b) solid carbon dioxide (c) solid oxygen (d) dry water

14. Laughing gas is .....

(a) silicon oxide (b) nitrous oxide (c) oxygen gas (d) nitrogen gas

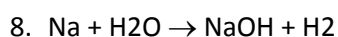
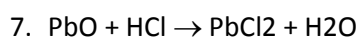
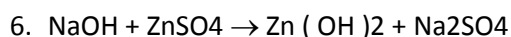
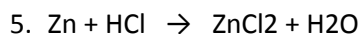
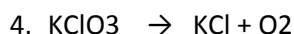
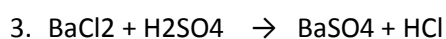
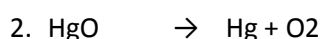
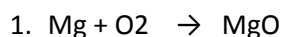
15. Carbon dioxide is .....

(a) lighter than air (b) as heavy as air (c) heavier than air (d) lighter than water

16. Mercury is a .....

(a) precious metal (b) liquid (c) gas (d) vapour

**A. Balance the following equations : (rewrite)**



Which of the following is the odd one? A) Hydrochloric acid B) Sulphuric acid C) Nitric acid D) Ammonium Nitrate.	Which is not a complex sugar? A) Glucose B) Sucrose C) Lactose D) Maltose	
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Which of the following is not soluble in water? A) Table sugar B) Table salt C) Table vinegar D) Iron filings	To change the state of rest or of uniform motion of any object ..... is required. A) Some external force B) Mass C) Volume D) environment	
Which of the following is not a hydrocarbon A) Ethane B) Methane C) Hydrochloric acid D) Acetylene	Force is linked with ..... A) Acceleration B) Position of rest C) Inertia D) Velocity	
Photosynthesis is the process of : A) Assimilating carbon dioxide and water B) Mixing carbon and oxygen C) Mixing sulphur and carbon D) None of the above	The force required to move an object depends on the ..... of the object A) Width B) Mass C) Volume D) length	
Find the odd one out : A) Methane B) Ethane C) Propene D) Butane	Find the odd one out : A) Chlorine B) Fluorine C) Sulphur D) Bromine	

In a chemical reaction, the catalyst .....

- Lowers the speed of reaction
- Increases the speed of reaction
- Does not affect the speed of reaction
- Changes itself

Solar ..... converts solar energy into electricity

- Cooker
- Heater
- Dryer
- Cell

Large and unending source of energy is .....

- Coal
- Wood
- Sun
- Water

A device which converts water energy into electrical energy is known as .....

- Solar cell
- Armature
- Solar dryer
- Battery

Rewrite the second column to match the first column

Column 1	Column 2
Finely divided iron	Detergents
Vanadium pentoxide	Automobiles
Finely divided nickel	Manufacture of SO <sub>3</sub>
Catalytic converters	Manufacture of NH <sub>3</sub>
Enzymes	Hydrogenation of vegetable oil

Write the formula of the following substances:

- |                       |           |                     |
|-----------------------|-----------|---------------------|
| a. Copper Sulphate    | Answers : | CuSO <sub>4</sub>   |
| b. Potassium Chloride |           | KCl                 |
| c. Calcium Carbonate  |           | CaCO <sub>3</sub>   |
| d. Sodium Nitrate     |           | NaNO <sub>3</sub>   |
| e. Calcium Hydroxide  |           | Ca(OH) <sub>2</sub> |

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