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**FA -3 ,SUB: SCIENCE (2016-17) QUESTION BANK FOR CLASS VII**

**I. MCQ**

1. The chemical name of baking soda is \_\_\_\_\_  
a. sodium hydrogen carbonate   b. sodium carbonate   c. sodium chloride  
d. carbon dioxide.
2. The uppermost layer of the soil is rich only in minerals?  
a. Sand   b. water   c. air   d. humus
3. Which of the following conditions will turn lime water milky?  
a. when carbon dioxide gas is passed through it   b. when oxygen gas is passed through it   c. when hydrogen gas is passed through it   d. none of these
4. Which of the following is the chemical formula of rust?  
a.  $Fe_2O_3$    b. Fe   c.  $Fe(NO_3)_2$    d. all of these
5. The rotting dead matter in the soil is called.  
a. minerals   b. humus   c. loam   d. clay
6. Spiracles are respiratory structures in \_\_\_\_\_  
a. Reptiles   b. mammals   c. birds   d. insects
7. Which of the following organisms respire anaerobically?  
a) Yeast   b. fish   c. earth worm   d. human
8. Which of the following is used for making galvanized iron sheets  
a. Zinc   b. Carbon   c. Nitrogen   d. Copper
9. Human Urine contains 95% of \_\_\_\_\_  
a. Nitrogen   b. Sodium chloride   c. Urea   d. Glucose
10. From which part of the plant 'translocation' of food takes place?  
a. Leaves   b. stem   c. root   d. flower
11. In plants, water is transported through:  
a. xylem   b. phloem   c. stomata   d. root hair
12. Haemoglobin is present in \_\_\_\_\_ cells in humans  
a. RBC   b. WBC   c. platelets   d. all the above.

## II. WRITE TRUE OR FALSE

1. Melting of ice is a physical change.
2. Carbon is used for making galvanized iron sheets.
3. A chemical change is a reversible change.
4. Bedrock is present between the topsoil and the B horizon
5. Blowing a balloon is a physical change.
6. Phloem conducts food materials while xylem conducts water.
7. Earthworm breathes through their skin.
8. Clayey soil has high percolation rate .
9. Muscle cramps result due to the accumulation of carbon-di- oxide in the body.
10. Lactic acid is produced in the presence of oxygen.

## III. SHORT ANSWER

1. What is crystallization?
2. How would you show that setting of curd is a chemical change ?
3. Draw the diagram of soil profile?
4. Name the two types of blood vessels and write two differences between them.
5. What is a physical change?
6. Why does an athlete breathe faster and deeper than usual after finishing the race?
7. What are stomata? Write two functions of stomata.

## III. Short answer

1. Explain why rusting of iron object is faster in coastal areas than in desert ?
2. Describe how crystals of copper sulphate are prepared.
3. Why do we often sneeze when we inhale a lot of dust-laden air ?
4. Write the similarities and differences between aerobic and anaerobic respiration.

5. What is meant by *Pulse*? What is the normal Pulse rate in a resting person?  
How can you find the pulse rate of a person?
6. List the differences between clayey and sandy soil.
7. Describe the function of the heart.

#### **IV. Long answer**

- 1.a) How is soil formed?  
b) Razia conducted an experiment of percolation. She observed that it took 40 minutes for 200 ml of water to percolate through the soil sample. Calculate the rate of percolation.
- 2.a) Name two types of blood vessels and write two differences between them.  
b) What is crystallization?
3. Draw a diagram of the human heart and label the parts.
4. Draw a diagram of the human excretory system and label the parts.
5. When a candle burns, both physical and chemical changes take place. Identify these changes. Give another example of a familiar process in which both chemical and physical changes take place
6. Explain how soil pollution and soil erosion can be prevented?
7. Describe different modes of respiration, found in various animals.