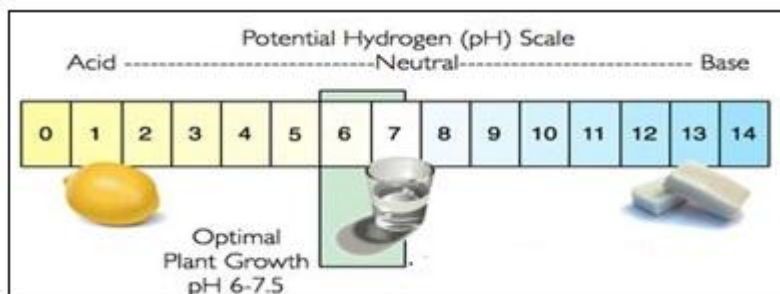


# CCT Weekly Practice (Science)

## UNIT: pH Scale



### Question 1:-

The sample of soil from a particular place was tested for its pH value. It came out to be 5. Which one of the following should be added to the soil to make it suitable for plant growth?

- i) Calcium chloride
- ii) Calcium Hydroxide
- iii) Calcium sulphate
- iv) Calcium oxide

Select the correct option(s):

- a) Both i) and ii)
- b) Both ii) and iv)
- c) Both ii) and iii)
- d) Only iii)

### Question 2:-

Acid rain affects each and every component of the ecosystem. Acid rain also damages man-made materials and structures. It is one of the most serious environmental problems emerged due to air pollution. Which of the following statement is not true for acid rains?

- a) Acid rain can conduct electric current.
- b) The main contributors of acid rain are oxides of nitrogen and sulphur.
- c) Acid rain reacts with marble and limestone to form calcium hydroxide.
- d) The pH below which the precipitation is regarded as acid rain is 5.6

### Question 3:-

Which of the following salt will give pH value less than 7 when dissolved in water?

- a)  $\text{NH}_4\text{Cl}$
- b)  $\text{NaCl}$
- c)  $\text{Na}_2\text{CO}_3$
- d)  $\text{CH}_3\text{COONa}$

#### Question 4:-

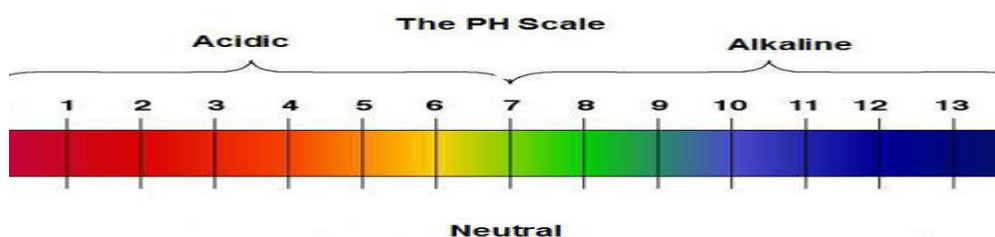
When we place a pH meter in a beaker of pure water at  $25^{\circ}\text{C}$ , we observe that the water has a pH value of 6.79. When the water begins to boil at  $100^{\circ}\text{C}$ , the pH meter reads 6.12.



Which statement is correct ?

- a) Boiling makes the water acidic.
- b) The  $\text{H}^+$  ions decreases in water.
- c) The  $\text{OH}^-$  ions decreases in water.
- d) Water remains neutral.

#### Question 5:-



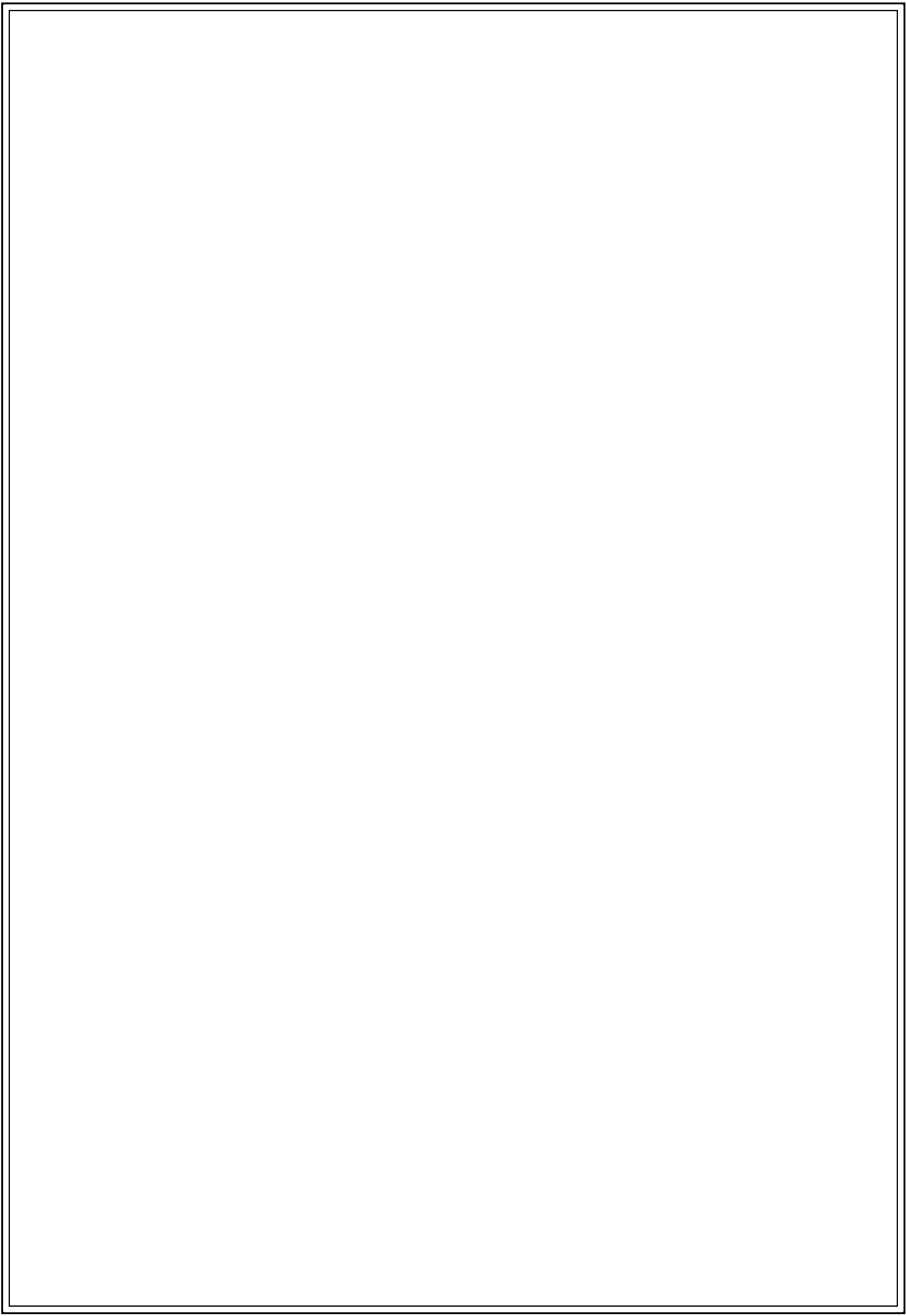
Name an indicator solution which shows different colours at different concentration of ions in the solution.

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## **CCT Monthly Practice (Science)**

### **Answer key:**

- 1) b) Both (ii) and (iv)
- 2) c) Acid rain reacts with marble and limestone to form calcium hydroxide.
- 3) a)  $\text{NH}_4\text{Cl}$
- 4) d) Water remains neutral.
- 5) Universal indicator.

### **Prepared by :-**

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