Synthetic and Natural Indicators

1. Fill in the blanks

- A. Litmus is available in the form of a solution, or in the form of strips of paper, known as_____
- B. The solutions which do not change the color of either red or blue litmus are known as______ solutions
- C. Ant bites injects the acidic liquid called______ into the skin
- D. When the soil is acidic, it is treated with _____ like _____ or
- E. If the soil is basic, ______ is added to it which releases ______ to neutralize the basic nature of the soil.

2. True or false

- A. Litmus, when added to an acidic solution, it turns red and when added to a basic solution, it turns blue
- B. China rose indicator turns acidic solutions to green and basic solutions to dark pink (magenta)
- C. When an acidic solution is mixed with a basic solution, both the solutions neutralize the effect of each other
- D. Phenolphthalein gives a pink color if solution is acidic. On the other hand, when the solution is basic, it remains colorless
- E. We can taste all substances to find their taste

3. Match the following:-

Column A		Column B
I.	Litmus	A. Gudhal
II.	Phenolphthalein	B. Natural indicator
III.	China rose	C. Synthetic indicator

4. Answer the following questions

- A. What are indicators and what is their use?
- B. How do indicators work? Provide example.
- C. Provide examples of natural and synthetic indicators.
- D. From where litmus is extracted?
- E. What is neutralization? Name an indicator which is used in neutralization reactions?