

**Grade 07**

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A A salt solution

B An amount of lime juice

C An amount of lime water

(i) Explain briefly how above things are identified without tasting.

(ii) Following table was used to record the observation. Fill in the blanks.

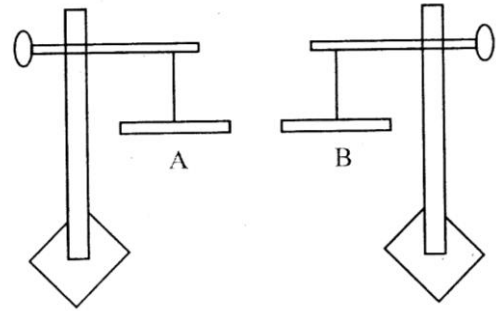
Substance	Colour change	
	red litmus	Blue litmus
A	(a) .....	(b) .....
B	(c) .....	(d) .....
C	(e) .....	(f) .....

- (iii) classify A , B and C as acidic , basic and neutral according to the above observations.
- (iv) What can you observe if a pH paper is inserted to lime juice ?
- (v) Give the acidic basic colours of Phenolphthalein and methyl orange

(02) A. You can observe small pieces of paper are attracted to a pen which is rubbed against dry hair

- (i) What is the term used for above incidence ?
- (ii) What are the particles exchanged when two object are rubbed against each other ?
- (iii) Following activity was scheduled by a group of student to observe how electrostatic charges are formed the types of charges and the forces between them.

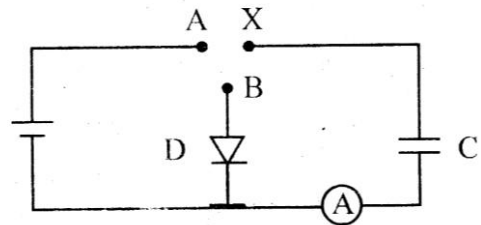
- A glass rod rubbed against a silk cloth and an ebonite rod rubbed against a wool cloth are hung as in the figure



- What can be observed when A and B are taken closer?
- What can be observed if they are taken closer again?
- What were the types of charges on A and B?
- What is the reason for the observation in (b)?

B. When X terminal is touched with A first then touched with B,

- What can you observe in ammeter in two occasions?
- Identify C and D
- What is the process called which occurs when X is connected to B?



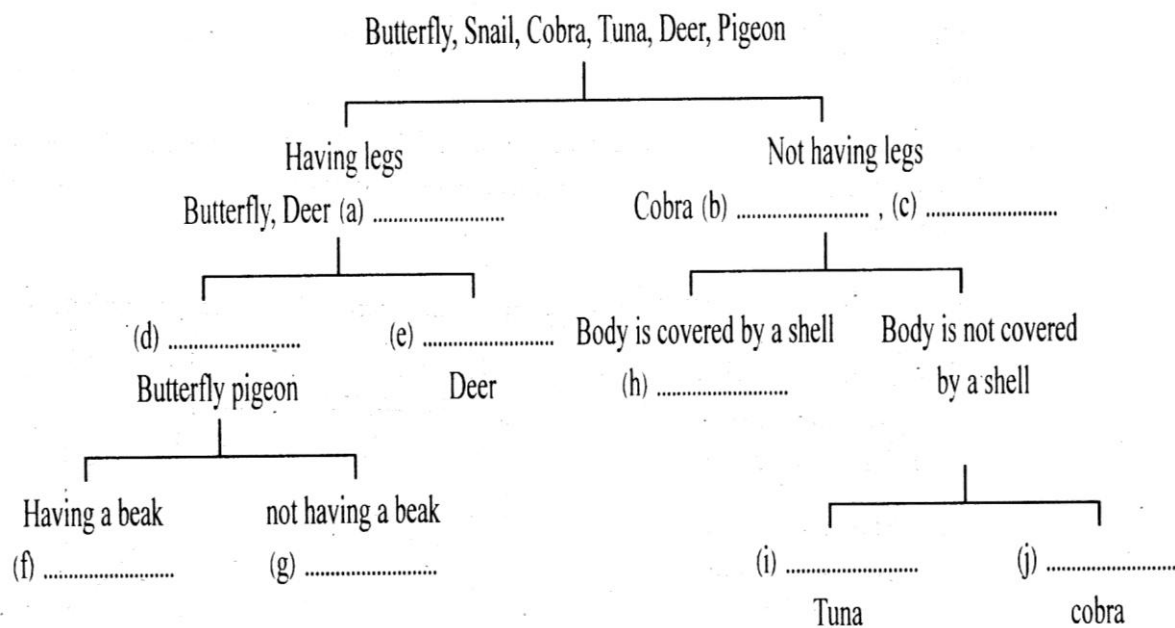
(03) Organisms live in various environments such as land, atmosphere and water. They live in various habits showing various movements, various modes of nutrition.

- Explain briefly what is meant by adaptation
- Animals show adaptations to fulfil 3 main needs of them. What are those?

B (i) What is camouflage?

- Explain using an example how camouflage becomes important for the existence of living beings.

C Dichotomous keys can be used to calssify animals. Fill in the blanks in following.



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