



# Central College - Anuradhapura

## Special Holiday Study Pack - II

Grade 07

Prepared by : Niluka Bogahawatta

(01) Following things are given to you

A A salt solution      B An amount of lime juice  
C An amount of lime water

You are given red and blue litmus too.

(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) .....

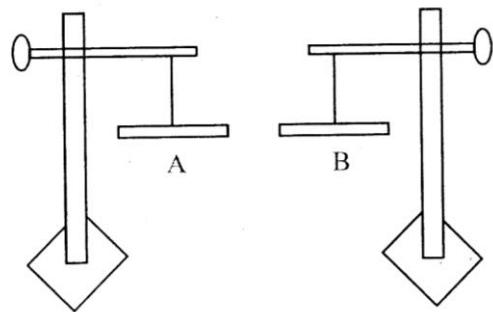
- (iii) classify A , B and C as acidic , basic and neutral according to the above observations.
- (iv) What can you observe if a pH paper is inserted to lime juice ?
- (v) Give the acidic basic colours of Phenophthalein and methyl orange

(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.

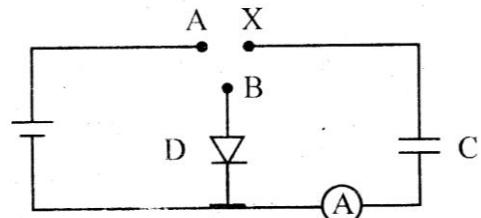
- A glass rod rubbed against a silk clothe and an ebonite rod rubbed against a wool clothe are hung as in the figure



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

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

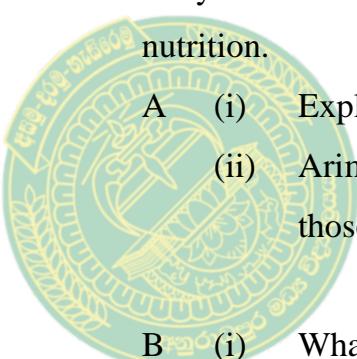
- (i) What can you observe in ammeter in two occasions ?
- (ii) Identity C and D
- (iii) What is the process called which occur when x is connected to B ?



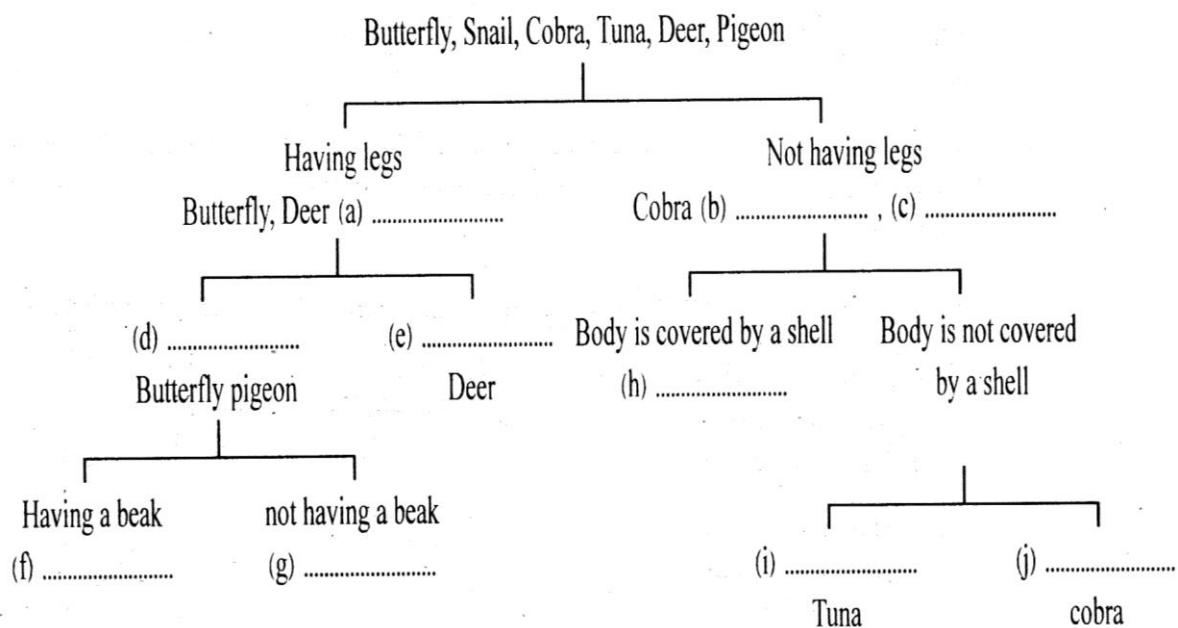
(03) Organisms live on rarious environments such as lard d, atomosphere and water. They live in various habits showing various movements , various modes of nutrition.

A (i) Explain briefly what is meant by adaptation  
 (ii) Arimals show adaptations to fulfil 3 main needs of them. What are those ?

B (i) What is camou flage ?  
 (ii) Explain using an axample how camouflage becomes important for the existence of living beings.



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



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