BIOLOGY

BOOKS - S CHAND BIOLOGY (HINGLISH)

TEST PAPER 3

Section A

1. The human hand, cat paw and the horse foot, when studied in detail show the same

structure of bones and point towards a common origin

(a) What do you conclude from this?

(b) What is the term given to such structures?

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2. What are trophic levels? Give an example of a food chain having four organisms and name the different trophic levels in it. Draw a sketch to show these trophic levels in it. Draw a sketch to show these trophic levels.

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3. (a) What is a 'gene' ? Explain the meaning of dominant genes and recessive genes with examples.

(b) In humans , if gene B gives brown eyes and gene b gives blue eyes, what will be the colour o the eyes of the persons having the following combinations of genes?

(i) BB (ii) bb (iii) Bb

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4. Draw a labelled diagram of the human digestive system.

(a) In which part of the digestive system is water absorbed ?

(b) Where is digested food absorbed in the human body ?

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5. Which acid is produced in our stomach ? What happens if there is an excess of acid in the stomach? How can its effect be cured?

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6. Explain the term racidity. Write any two methods to prevent (or retard) the development of rancidity in fat and oil containing foods. Name another damaging effect caused by the same natural process which produces rancidity.

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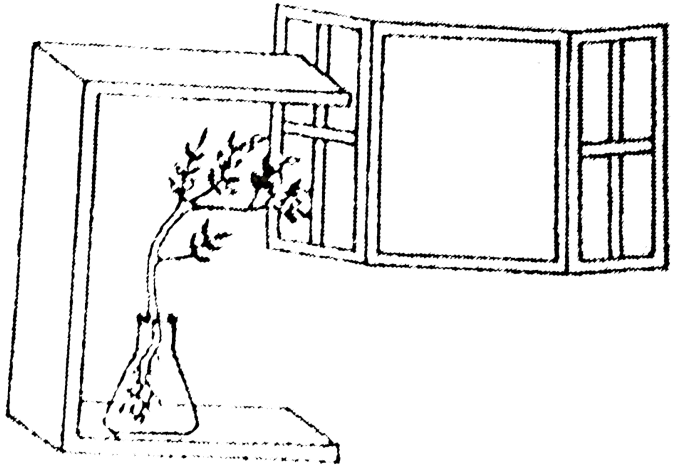
Section B

1. What does the given experimental set-up demonstrate ?



Use scientific terms to decribe the phenomenon.

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2. In the experiment to show that sunlight is necessary for photosynthesis:

(a) what is done to destarch the green leaves of the potted plant initially ?

(b) What is done to a part of destarched leaf so that photosynthesis may not take place in that part of the leaf (before keeping the potted plant in sunlight) ?

(C) How is chloroophyll removed from the green leaf before futher testing ?

(d) which reagent is used to test teh presence/absence of starch in the parts of experimental leaf ?

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