



BIOLOGY

BOOKS - S CHAND BIOLOGY (HINGLISH)

TEST PAPER 1

Section A

1. Which of the following gases is a major constituent of biogas : Carbon monoxide,

hydrogen, methane, carbon dioxide ?



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2. What do the following transport?

(i) Xylem (ii) Phloem (iii) Pulmonary vein (iv)

Vena cava



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3. (a) What is the function of a flower?

(b) Name those parts of the flower which serve

the same function as the following do in the animals:

(i) testis (ii) ovary (iii) eggs (iv) sperms



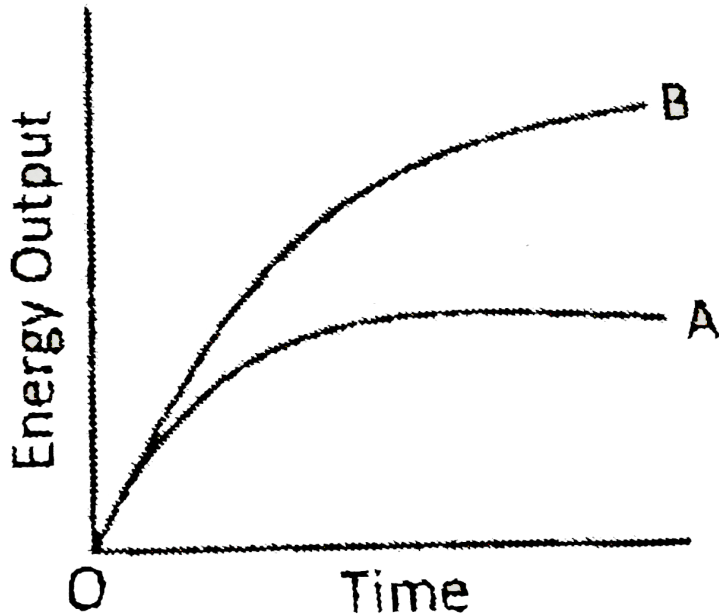
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4. (a) What is meant by respiration?

(b) A graph was plotted to show the energy output of two types of respiration:

(i) Identify the types of respiration denoted by curves A and B

(ii) How do you arrive at your answer?



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5. (a) What is the scientific name of malarial parasite? Name the method of its

reproduction.

(b) Write one feature which is common to each of the following pairs of terms/organs

(i) glycogen and starch (ii) chlorophyll and haemoglobin

(iii) gills and lungs (iv) arteries and veins



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6. (a) What are hormones? Give some of the characteristics of hormones?

(b) Which hormone is released into blood

when its sugar level rises? Name the organ which produces the hormone and its effect on blood sugar level. Also name one digestive enzyme that this organ secretes and the function of this enzyme.



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7. (a) Quote three instances where human intervention saved the forests from destruction.

(b) Explain that it is a matter of chance

whether a couple will give birth to a boy or a girl.

Draw the necessary diagram to illustrate your answer.



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8. Name the largest cell present in the human body.



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9. (a) Name the tissue which transports soluble products of photosynthesis in a plant.

(b) Name the tissue which transports water and minerals in a plant.



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10. (a) What are the two main components of our environment ?

(b) What will happen to a plant if its xylem is removed ?

(c) Name two tissues that provide control and coordination in multicellular animals.



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11. (a) Name two biodegradable and two non-biodegradable wastes.

(b) Name the biotic and abiotic components of ecosystem.

(c) What is the role of decomposers in the ecosystem ?

(d) If the plants get 10000 J of energy from the

sun, how much energy will be available to tiger
in the following food chain ?

Plants → Deer → Tiger

(e) A harmful chemical enters food chain comprising peacock, frog, grass, snake and grasshopper. Which of these organisms will have the maximum concentration of harmful chemical in its body ? Why?



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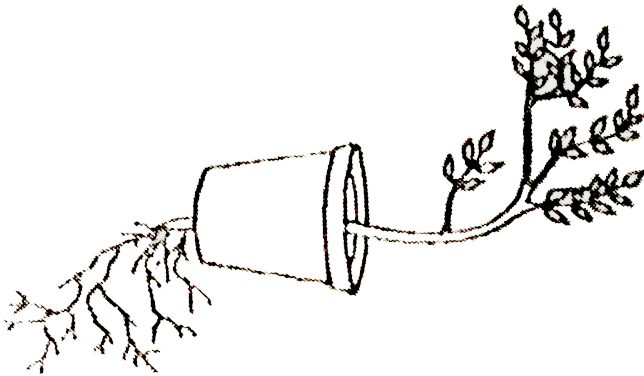
12. Name the organs of the human female reproductive system. Draw a neat, labelled diagram of the human female reproductive system and describe its working. How much is the gestation period in humans?



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Section B

1. The given experimental set up tests the responses of different parts of plant towards gravity. Use scientific terms for the conclusions.



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2. A student was viewing a leaf peel under a microscope. He observed green, dot-like

structures in some cells.

(a) What are the green, dot-like structures?

(b) What is this green colour due to?



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3. A student placed a potted plant growing in a glass pot horizontally (with the root and shoot, both being in the horizontal direction). After a few days, the student observed that the root of the plant bends downwards and the shoot (stem) of the plant bends upwards.

Which scientific term is used to indicate :

(a) upward bending of shoot (or stem) ?

(b) downward bending of root ?



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