



BIOLOGY

BOOKS - CBSE COMPLEMENTARY MATERIAL BIOLOGY (HINGLISH)

QUESTION PAPER 02

Section A

1. Write two codes of nomenclature of living organism.



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2. What is an 'endarch' arrangement? Which one out of the root and stem shows this arrangement?



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3. Iodine turns the starch into blue black colour. Why?



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4. What do you understand by the term facilitated diffusion?

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5. Name the region of brain, which constitutes 'brainstem'.

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1. Give any four characteristics of mycoplasm.



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2. The spread of living pteridophytes is limited and restricted to narrow geographical regions.

Why?



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3. Some animals of phylum 'Cnidaria' show metagenesis. What is it? Give an example of animal that shows metagenesis.



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4. What are exocrine glands? Name the secretions of any two exocrine glands.



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5. Name the two types of lymphocytes and write one difference between the two.



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6. A frog's tadpole becomes ammonotelic while the adult frog becomes ureotelic. Why?



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7. Mention the three types of joints found in human body. Which of these play a significant role in locomotion.



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8. Ovary produces two groups of steroid hormones called estrogen and progesterone. Mention at least two actions of each of these two hormones in human females.



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Section C

1. Differentiate between racemose and cymose inflorescence.



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2. What is phyllotaxy? Name the type of phyllotaxy found in (i) Mustard (ii) Alstonia (iii) Calotropis.



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3. Give at least three points of difference between springwood and autumn wood.

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4. Name the scientists who proposed cell theory. Also list its main postulates.

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5. Enlist the different types of amino acids based on the number of carboxyl and amino groups in them. Also give one example of each of these amino acids.



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6. Explain a glycosidic, peptide and a phosphodiester bond.



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7. Describe briefly the various stages of cell cycle during the interphase preceding mitosis.

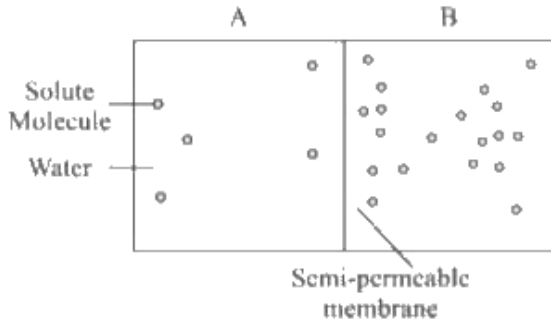


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8. Study the given figure in which two chambers A and B, containing solutions are separated by a semipermeable membrane :

If one chamber has Ψ of - 2000 kPa and the other -1000 k Pa, which is the chamber that has

higher Psi?



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9. What would be expected to happen if :

GA_3 is applied to rice seedling.

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10. What would be expected to happen if :

A rotten fruit gets mixed with unripe fruits.



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11. What would be expected to happen if :

You forget to add cytokinin to the culture medium.



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12. Name any three enzymes secreted by pancreas. Specify the substrate and product of each.



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13. Describe the role of haemoglobin in transport of respiratory gases.



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1. Name the scientist who proposed the fluid mosaic model about the structure of plasma membrane. Describe the structure of plasma membrane according to the model.



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2. Why meiosis is called reductional division?
Describe the key events of prophase-I of meiosis-I cell division. Write the significance of meiosis cell division.



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3. Name CO_2 acceptor in the mesophyll cells of a C_4 plant. Explain the synthesis of glucose in such plants.



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