



# BIOLOGY

## BOOKS - CBSE COMPLEMENTARY MATERIAL BIOLOGY (HINGLISH)

### QUESTION PAPER 01

#### Section A

1. Most abundant enzyme in the world is



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2. Pepsinogen is an inactive enzyme released by the gastric gland of stomach.

How is it activated?



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3. Pepsinogen is an inactive enzyme released by the gastric gland of stomach.

On which nutrient does it act upon?



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#### 4. CYTOKINESIS (TYPES)



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#### 5. Define species.



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6. To which bone are the ribs ventrally attached to?



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## Section B

1. Write two characteristic features of Euglenoids.



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2. Name the main mineral corticoid in our body.  
What is its function?





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3. Both gymnosperms and angiosperms bear seeds, then why are they classified separately?



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4. Diagrammatically represent sectional view of trophoblastic organisation in animals.



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5. What is partial pressure of a gas?



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6. Which of the following factor can affect the rate of diffusion of gases ?



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7. In old age, people often suffer from stiff and inflamed joints. What is this condition called?

What are the possible reasons for these symptoms?



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8. What is the cause of osteoporoses?



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**Section C**

1. Differentiate between apocarpous and syncarpous ovary.



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2. What are parthenocarpic fruits?



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3. What are Pneumatophores ?



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4. Explain the three types of cell junctions.



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5. Differentiate between 'RER' and 'SER'.



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6. Why is mitochondria called the power house of the cell?



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7. Explain competitive inhibition along with an example.



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8. Name the pyrimidines found in DNA.



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9. Answer the questions with references to anatomy of dicot stem:

Type of cells present in the Hypodermis.



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10. Answer the questions with references to anatomy of dicot stem:

Why is the endodermis layer referred to as starch sheath?



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**11.** Answer the questions with references to anatomy of dicot stem:

Why are the vascular bundles present referred to as open and conjoint?



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**12.** Write any three differences between mitosis and meiosis.



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13. How dose butter in your food get digested and absorbed in the body?



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14. Fill in the blanks (i) to (vi) in different columns of the table given below :

Fill in the blanks (i) to (vi) in different colums of the table given below :

Endocrine Gland	Hormone	Functions
(a) Ovary	(i) .....	Support pregnancy
(b) (ii) .....	Glucagon	maintain blood glucoselevel
(c) Pituitary	TSH	(iii) .....
(d) Thyroid	(iv) .....	Metabolism of carbohy- drate, fat proteins
(e) (v) .....	Melatonin	Regulation of diurnal Rhythm
(f) Pituitary	Oxytocin	(vi) .....



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**15.** Define vernalisation.



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**16.** What are short day plants?



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**17.** Name the plant growing regulator which is synthesised by ripening fruits.



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**18.** Answer the question in respect to approach :

What is meant by paurometabolous?



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**19.** Answer the question in respect to cockroach :

What is the function of gizzard and malpighian tubules?



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**20.** Answer the question in respect to cockroach :

Write scientific name of cockroach.



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**21.** Define respiratory quotient. Give the RQ for carbohydrates, fats and proteins.



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**22.** Where does glycolysis occur and what does glucose breakdown into during this process?



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**23.** Differentiate between apoplast and symplast pathway of water movement in root.



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**24.** Where are casparion strip found in plants and what are they made up of?



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**Section D**

1. Disha is suffering from high blood pressure and her doctor advised her to start medication to control her blood pressure. But she is reluctant to take medicines. Her friend Sanya convinces her to take the medicines.

Mention the normal blood pressure of a healthy person.



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2. Disha is suffering from high blood pressure and her doctor advised her to start

medication to control her blood pressure. But she is reluctant to take medicines. Her friend Sanya convinces her to take the medicines.

Which organ can be affected due to high blood pressure (Name any two)



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**3.** Disha is suffering from high blood pressure and her doctor advised her to start medication to control her blood pressure. But she is reluctant to take medicines. Her friend

Sanya convinces her to take the medicines.

Which values do you observe in Somya? (any two)



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## Section E

1. Explain the mechanism of urine formation.



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2. Write the full form of the GFR.



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3. Write the full form of the ADH.



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4. What is resting membrane potential? Give the role of sodium potassium pumps in

maintaining it. How does resting potential change into action potential?



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5. Give one function of the Medulla .



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6. Give one function of the Hypothalamus



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7. Where does the calvin cycle take place?

Describe its three phases (draw the cycle also)



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8. Why is the Kreb's cycle also called citric acid cycle? Explain the major steps of the cycle.

(Draw the cycle also).



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9. Describe the effect of substrate concentration on enzyme activity.



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10. Explain the primary, secondary and tertiary structure of proteins.



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**11.** Describe the structure of chloroplast along with its diagram.



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**12.** What are nuclear pores? State their function.



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