



# BIOLOGY

## BOOKS - BAL BHARTI

### LIFE PROCESSES IN LIVING ORGANISMS PART-1

**Use Your Brain Power**

1. Use your brain power

Many players are seen consuming some food

stuffs during breaks of the game. Why may be the players consuming these food stuffs?



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2. Use your brain power

Many times, we experience dryness in mouth.



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3. Use your brain power

Oral rehydration solution § (Salt-sugar. water)

is frequently given to persons experiencing loose motions.



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4. Use your brain power

We sweat during summer and heavy exercise.



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5. What do you mean by diploid cell?



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6. What do you mean by haploid cell?



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7. Use your brain power

What do you mean by homologous chromosomes?



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## 8. Use your brain power

Whether the gametes are diploid or haploid?

Why?



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## 9. Use your brain power

How are the haploid cells formed?



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## 10. Use your brain power

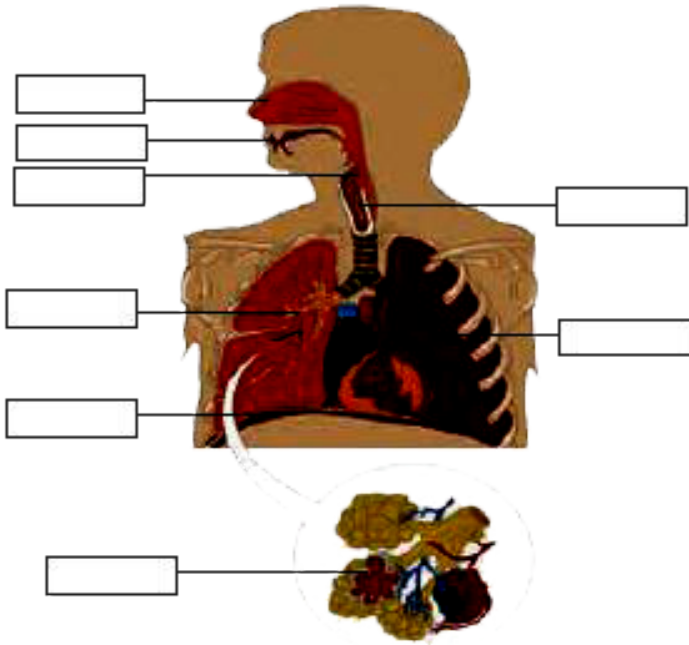
What is the importance of haploid cells?



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**Observe**

1. Observe and Label the diagram given beside.



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Exercise

1. After complete oxidation of a glucose molecule, \_\_\_\_\_ number of ATP molecules are formed.



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2. At the end of glycolysis, \_\_\_\_\_ molecules are obtained.



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3. Genetic recombination occurs in \_\_\_\_\_ phase of prophase of meiosis I.



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4. Fill in the blanks and explain the statements.

All chromosomes are arranged parallel to equatorial plane of cell in -- -- -- phase of mitosis.



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**5.** Fill in the blanks and explain the statements.

For formation of plasma membrane, --- --- ---  
molecules are necessary.



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**6.** Fill in the blanks and explain the statements.

Our muscle cells perform -- -- -- type of  
respiration during exercise.



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**7. Write definitions.**

Nutrition



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**8. Write definitions.**

Nutrients



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**9. Write definitions.**

Proteins



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**10. Write definitions.**

Cellular respiration



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**11. Write definitions.**

Aerobic respiration



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**12. Write definitions.**

Glycolysis



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**13.** Distinguish between Glycolysis and TCA cycle :



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**14.** Distinguish between Mitosis and Meiosis.



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**15.** Distinguish between Aerobic and anaerobic respiration :



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**16.** Give scientific reasons:

Oxygen is necessary for complete oxidation of glucose.



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**17.** Give scientific reasons:

Fibres are one of the important nutrients.



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**18.** Give scientific reasons:

Cell division is one of the important properties of cells and organisms.



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**19.** Give scientific reasons:

Sometimes, higher plants and animals too perform anaerobic respiration.



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**20.** Give scientific reasons:

Krebs cycle is also known as citric acid cycle.



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**21.** Answer the following questions in detail:

Explain the glycolysis in detail



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**22.** Answer the following questions in detail:

With the help of suitable diagrams, explain the mitosis in detail.



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**23.** Answer the following questions in detail:

With the help of suitable diagrams, explain the five stages of prophase-I of meiosis.



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**24.** Answer the following questions in detail:

How do all the life processes contribute to the growth and development of the body?



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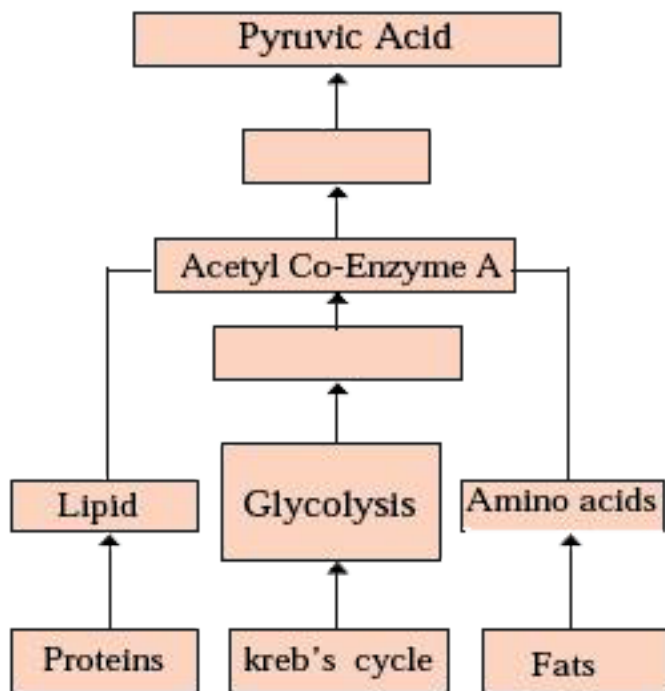
**25.** Answer the following questions in detail:

Explain the Krebs cycle with reaction.



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26. How energy is formed from oxidation of carbohydrates, fats and proteins? Correct the diagram given below.



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