

Aerobic Respiration

- It takes place in the presence of oxygen.
- It occurs both in cytoplasm and mitochondria of cell.
- Glucose is completely broken down into CO_2 , water and energy.
- More amount of energy is released.

Anaerobic Respiration

- It takes place in the absence of oxygen.
- It takes place only in the cytoplasm of the cell.
- Glucose gets incomplete breakdown into ethanol, CO_2 and energy.
- Comparatively less amount of energy is released.

Q) What are the different ways in which glucose is oxidised to provide energy in various organisms?

Ans- First step of breakdown of glucose takes place in the cytoplasm of cells of all organisms. This process yields a three ^{carbon} molecule compound called pyruvate. Further breakdown of pyruvate takes place in different ways in different organisms.

Q) Name some organisms that use the anaerobic mode of respiration.

Ans- Some organisms that use the anaerobic mode of respiration are yeast, bacteria, etc.