



# BIOLOGY

## NCERT - FULL MARKS BIOLOGY(TAMIL)

### RESPIRATION IN PLANTS

#### Question

1. Differentiate between

(a) Respiration and Combustion

(b) Glycolysis and Krebs' cycle

(c) Aerobic respiration and Fermentation



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2. What are respiratory substrates? Name the most common respiratory substrate.



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3. Give the schematic representation of glycolysis?



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4. What are the main steps in aerobic respiration? Where does it take place?



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5. Give the schematic representation of an overall view of Krebs cycle.



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6. Explain ETS.



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7. Distinguish between the following:

(a) Aerobic respiration and Anaerobic respiration

(b) Glycolysis and Fermentation

(c) Glycolysis and Citric acid Cycle



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8. What are the assumptions made during the calculation of net gain of ATP?



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9. Discuss “The respiratory pathway is an amphibolic pathway.”



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10. Define RQ. What is its value for fats?



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**11.** What is oxidative phosphorylation ?



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**12.** What is the significance of step-wise release of energy in respiration?



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