

## CHAPTER-14

### EXERCISES

- \*1. Differentiate between
  - (a) Respiration and Combustion
  - (b) Glycolysis and Krebs' cycle
  - (c) Aerobic respiration and Fermentation
2. What are respiratory substrates? Name the most common respiratory substrate.
- \*3. Give the schematic representation of glycolysis?
- \*4. What are the main steps in aerobic respiration? Where does it take place?
- \*5. Give the schematic representation of an overall view of Krebs' cycle.
- \*6. Explain ETS.
- \*7. Distinguish between the following:
  - (a) Aerobic respiration and Anaerobic respiration
  - (b) Glycolysis and Fermentation
  - (c) Glycolysis and Citric acid Cycle
8. What are the assumptions made during the calculation of net gain of ATP?
- \*9. Discuss "The respiratory pathway is an amphibolic pathway."
10. Define RQ. What is its value for fats?
- \*11. What is oxidative phosphorylation?
- \*12. What is the significance of step-wise release of energy in respiration?

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