

Chapter 5: Respiration

Worksheet 1

1. Fill in the blanks.

- (i) _____ is called energy currency of the cell.
- (ii) Food is a source of _____ .
- (iii) Some energy is lost as _____ .
- (iv) We respire to get _____ .
- (v) _____ is needed for the oxidation of food.

2. Match the following.

Column A

- (i) Exhalation
- (ii) Oxygen
- (iii) Stomata
- (iv) Photosynthesis
- (v) Respiration

Column B

- (a) Inhalation
- (b) Carbon dioxide
- (c) Catabolic reaction
- (d) Leaves
- (e) Endergonic reaction

3. Correct the statements by replacing wrong word(s).

- (i) Breathing is a biochemical process.
- (ii) Breathing the air in is called exhalation.
- (iii) Oxygen and nitrogen are respiratory gases.
- (iv) Old woody stems respire through stomata.
- (v) Germinating seeds release carbon monoxide gas during respiration.

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Worksheet 2

1. Tick the correct answer.

- (i) The end product of anaerobic respiration in muscle cells is
(a) ethyl alcohol (b) lactic acid
(c) water (d) carbon dioxide
- (ii) Breathing comprises
(a) inhalation (b) exhalation
(c) respiration (d) both inhalation and exhalation
- (iii) Aerobic respiration completes inside
(a) vacuole (b) nucleus (c) mitochondria (d) plastids
- (iv) Cellular respiration occurs
(a) inside cells (b) in space between the cells
(c) between cells and blood (d) between blood and alveoli
- (v) Aerobes use this gas for the breakdown of glucose
(a) oxygen (b) carbon dioxide
(c) nitrogen (d) carbon monoxide

2. Encircle the correct word.

- (i) **ATP/CO₂** is an energy rich molecule.
- (ii) Taking in fresh air is called **inhalation/exhalation**.
- (iii) Stomata are found in **leaves/old stems**.
- (iv) **Respiration/Photosynthesis** occurs in green plants only.
- (v) **Chlorophyll/Glucose** is needed for respiration.
3. (a) Draw and label T S leaf showing exchange of gases during respiration.
- (b) Write word equations of the following:
- (i) Aerobic respiration
- (ii) Anaerobic respiration
- (iii) Lactic acid fermentation