

CELL BIOLOGY: BIOENERGETICS

GLYCOLYSIS AND FERMENTATION

PROBLEM SET 1: DEFINITIONS Define the following terms:

1. **glycolysis** _____

2. **glyceraldehyde** _____

3. **pyruvate** _____

4. **lactate** _____

PROBLEM SET 2: MULTIPLE CHOICE Select a single correct answer for each question.

1. **glycolysis** is a _____ process.

- a. aerobic pathway
- b. aerobic pathway

- c. series of enzymatic reactions
- d. series of enzymatic reactions

2. **glyceraldehyde** is a _____.

- a. 3-carbon monosaccharide
- b. 3-carbon sugar
- c. 3-carbon sugar monophosphate
- d. 3-carbon sugar

- e. 3-carbon monosaccharide
- f. 3-carbon sugar
- g. 3-carbon sugar monophosphate
- h. 3-carbon sugar

3. **pyruvate** is a _____ and its main _____ product.

- a. 3-carbon monosaccharide
- b. 3-carbon sugar
- c. 3-carbon sugar monophosphate

- d. 3-carbon monosaccharide
- e. 3-carbon sugar

4. **lactate** is a _____.

- a. 3-carbon
- b. 3-carbon

- c. 3-carbon
- d. 3-carbon

5. **glycolysis** is a _____ pathway through which the _____ of glucose is converted to _____.

- a. 3-carbon
- b. 3-carbon
- c. 3-carbon

- d. 3-carbon
- e. 3-carbon
- f. 3-carbon

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