

# Homework

**1<sup>st</sup> Semester 1441**  
**Deadline: 21/11/2019**

Name:

ID number:

Section:

## A) Answer the following questions:

- 1) What types of organisms undergo the process of cellular respiration?
  - a) Autotrophs
  - b) Heterotrophs
  - c) Autotrophs and Heterotrophs
  - d) None of the above
  
- 2) The Krebs cycle occurs in the \_\_\_\_\_, and the electron transport chain occurs in the \_\_\_\_\_?
  - a) Cytoplasm; Mitochondrial inner membrane
  - b) Mitochondrial Matrix; Mitochondrial inner membrane
  - c) Chloroplast; Mitochondrial inner membrane
  - d) Mitochondria Matrix; Cytoplasm
  
- 3) What is the net total of ATP molecules made during Krebs cycle?
  - a) 2 ATP
  - b) 4 ATP
  - c) 6 ATP
  - d) 28 ATP
  
- 4) How is anaerobic respiration different than aerobic respiration?
  - a) Anaerobic respiration need carbon
  - b) Anaerobic respiration does not need oxygen
  - c) Anaerobic respiration does not need carbon
  - d) Anaerobic respiration need oxygen

- 5) What type of fermentation occurs in muscle cells after strenuous exercise?
- a) lactic acid fermentation
  - b) Alcoholic fermentation
  - c) Carboxylic acid fermentation
  - d) Acetic acid fermentation

**B) Write an essay about the following subject:  
“photosynthesis and global climate change”**  
Use your **handwriting** and do NOT exceed 2 pages.