Assignment 3

Unit 5 - Week 3

Assignment 3

Due on 2014-10-08, 11:59 PM

1. What is the percentage composition of a typical 7-day old culture? (Choose the best answer from the options given.)
   a. 70% bacteria
   b. 80% bacteria
   c. 60% bacteria
   d. All of above

2. One of the major bursts of photosynthetic activity is
   a. Media exchange
   b. Increase in light intensity
   c. Increase in carbon dioxide concentration through upgrowth factors
   d. Carbon cell purity

3. Which material cannot be used for nutrient medium preparation?
   a. Peptone
   b. Yeast extract
   c. None of these
   d. None of these

4. Which buffer can be used to maintain pH?
   a. Acetic acid
   b. Acetic acid
   c. None of these
   d. None of these

5. In order to understand cellular behavior, which property of fluorescent molecules is generally measured using imaging techniques?
   a. Fluorescence intensity is quantified in terms of differences in relative intensity. What is the purpose?
   b. Fluorescence intensity is detected by the eye and scaled to brightness.
   c. The absolute intensity of the particular fluorophore.
   d. None of the above

6. What represents the ability of a Y-axis to distinguish between small objects close to each other?
   a. 10x objective
   b. 5x objective
   c. 2x objective
   d. 20x objective

7. The media that cannot be used in growth evaluation contains 1:
   a. 10% glucose
   b. 5% agar
   c. None of these
   d. None of these

8. The media that cannot be used in growth evaluation contains 1:
   a. 1.25% agar
   b. 1.5% agar
   c. None of these
   d. None of these