

Sample of Middle Test



KEMENTERIAN RISET, TEKNOLOGI DAN PENDIDIKAN
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MIDDLE TEST FOR EVEN SEMESTER IN 2019 / 2020 ACADEMIC YEAR

Subject : Innovative Learning 1
Department : Natural Science
Study Program : UPSE

Batch : 2018
Date : 18 Mei 2020
Time : 100 minutes

DIRECTION:

- Read the questions carefully, then answer the questions properly and correctly on the answer sheets!
- Don't forget to write down your name and identities on the provided space!

Questions

- The Direct Instruction (DI) model was developed to achieve two learning outcomes, namely mastery of well-structured knowledge and mastery of skills. Like other teaching models, the Direct Teaching Model has theoretical and empirical supports, a syntax, and requires a learning environment to use the model effectively.

QUESTION

- Social learning theory is one of the main supporting theory of the DI Model. Give an explanation, why this social learning theory is the main supporting theory of the DI Model!
- When a teacher will implement the DI Model, the teacher must plan it well; and one of the steps in the planning, namely carrying out a task analysis. If you are going to teach skills of using the O'Haus Balance (three-arm balance), make a task analysis to achieve the learning objective!
- If you are allocated for 40 minutes to teach Grade VII students to use the O'Haus Balance using the DI Model, outline your learning scenario.

- In addition to the DI Model, there is another learning model that you have learned in this Innovative Learning 1 course, namely the Presentation Model. Make a table that describes five differences between the Presentation and DI Models!

Sample of Final Test



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FINAL TEST FOR ODD SEMESTER IN 2019 / 2020 ACADEMIC YEAR

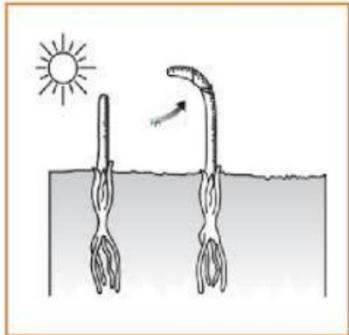
Subject : Plant Anatomy and Physiology Batch : 2018
Department : Natural Science Date : 18 September 2019
Study Program : UPSE Time : 100 minutes

DIRECTION:

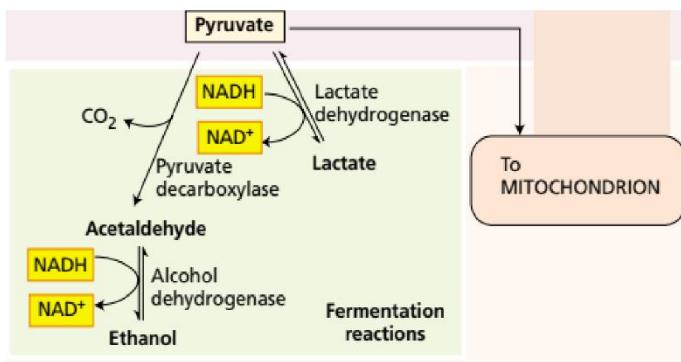
- c. Read the questions carefully, then answer the questions properly and correctly on the answer sheets!
- d. Don't forget to write down your name and identities on the provided space!

Questions

1. The picture on the right side is a visualization of the direction of plant growth. Based on the picture, what hormones influence this condition? and explain how this condition (according to the picture) can happen! (Score: 20)

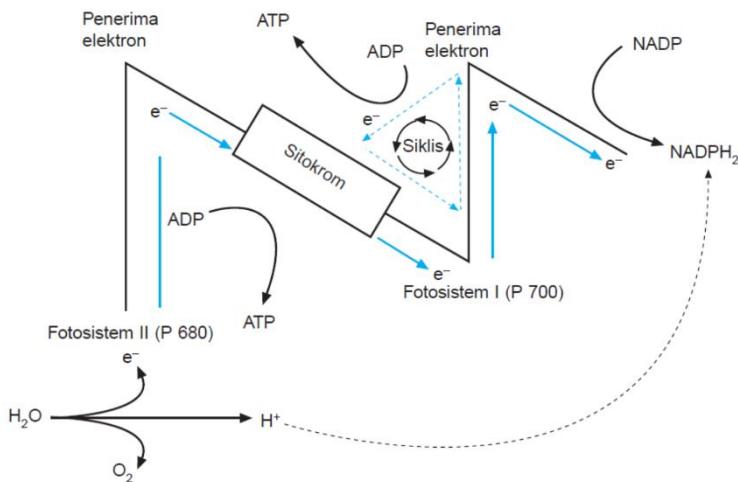


2. Look at the diagram below!



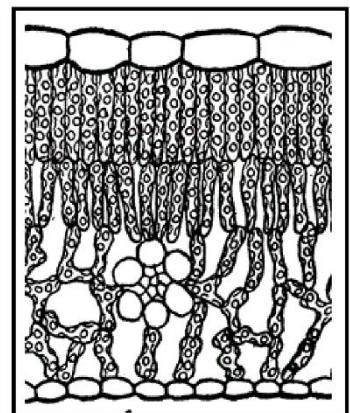
- a. Describe the diagram by explaining the conditions under which pyruvate will be fermented and when pyruvate will be further processed in mitochondria! (Score: 10)
b. Write down the oxidation reactions involved in the diagram and calculate the used energy represented on the diagram! (Score: 10)

3. Look at the photosynthetic cycle below!



- a. How is the relationship between photosystem II and photosystem I in providing energy for the activation of dark reactions (Calvin cycle)? (Score: 10)
- b. How can the loss of electrons be overcome in this system? (Score: 10)

4. What plant organ is shown in cross section in the picture on the right? Please give reasons for your answer! According to your understanding, what are the benefits of studying the anatomical structure of the organ? (Score: 20)



5. A young woman is found killed in a location. During the investigation, police found a piece of leaf attached to her clothes. Under the microscope, the leaf shows an anatomical structure as shown in the picture. Based on the anatomical structure of the leaf, where do you predict the location of the crime? Please give reasons for your answer! (Score: 20)

