SAMPEL PERCUMA

Trial STPM Sem 1 Biologi Kelantan 2024

Set penuh: Kertas Percubaan STPM

Sem 1 · Biologi

Sampel ini: 4 muka surat. Set penuh ada:

- 2 fail PDF
- Semester 1: kertas percubaan (trial) negeri, subjek yang dipilih + skema
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Sampel bermula di muka surat sebelah

Nombor kad pengenalan:…….……..... Nombor pusat/Angka giliran:…….…....

964/1 **TRIAL STPM 2024**

SIJIL TINGGI PERSEKOLAHAN MALAYSIA
BIOLOGY
PAPER 1

G CAKNA KELANTAN

1 Hour 30 Minutes

(MALAYSIA HIGHER SCHOOL CERTIFICATE)

Instructions to candidates:

DO NOT OPEN THIS QUESTION PAPER UNTIL YOU ARE ALLOWED TO DO SO

Answer all questions in Section A.
Answer all questions in Section B.
Answer two questions only in Section C.
All working should be shown. For numerical answers, unit should be quoted wherever appropriate.Answer may be written in English or Malay.

For Examiner usage	
Section A	
15 questions	
Section B	
16	
17	
Section C	
Total	

This question paper consists of 10 printed pages.

Section A [15*marks*]

Answer **all** *questions*.

Indicate the correct answer on the Multiple-choice Answer Sheet provided.

1. Which of the following explains why under very hot sun, the ocean is not hot compared to the exposed surface of the rocks on the beach?
   A. Water has high surface tension.
   B. Water has high latent of condensation.
   C. Water has high latent of fusion.
   D. Water has high specific heat capacity.

2. Which of the following statements is true about DNA molecule?
   A. Adenine pairs with thymine and guanine pairs with cytosine.
   B. The nitrogenous bases hold both strands by a single hydrogen bond.
   C. DNA molecule is single-stranded.
   D. The sugar phosphate backbone of the polynucleotide is on the inside of the helix.

3. Which of the following statements are correct about lipids?
   I Lipids consists of glycerol combined with alcohol.
   II Both fats and oils are triglycerides.
   III Oils are more saturated with hydrogen than fats.
   IV Lipids are more highly reduced substances than carbohydrates.

   A. II only
   B. I and IV
   C. II and IV
   D. I, III and IV

4 Which of the following tissue are able to photosynthesis, provide support and have cell walls which are water permeable?

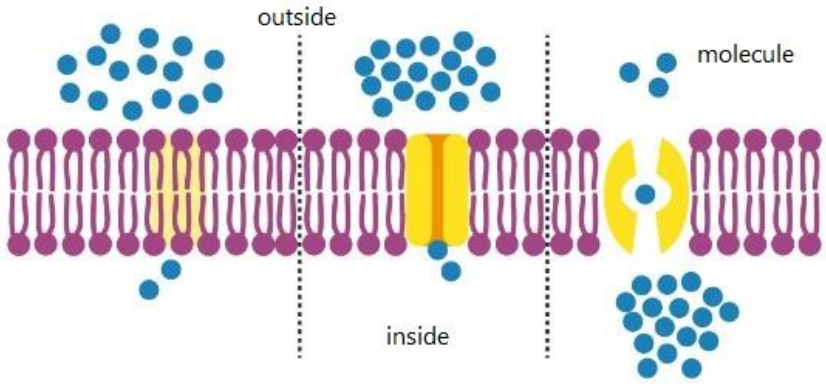
1 Collenchyma
11 Parenchyma
111 Sclerenchyma
1V Xylem

A 1 and 11 B 1 and 1V C 11 and 111 D 1,11 and 1V

5 A plant cell has a solute potential of -1000 kPa and its pressure potential is 200 kPa. What is the force that cause the movement of water into the plant cell, if it is immersed in a sucrose solution with a solute potential of -300 kPa

A -500 kPa
B -800 kPa
C -1100 kPa
D -1500 kPa

6 The following diagram shows the sequence of movement of a molecule across the membrane.



The movement of molecule in the diagram is called

A Pinocytosis
B Phagocytosis
C diffussion
D Facilitated diffussion

7. Zinc, an essential trace element for most organisms, is present in the active site of the enzyme carboxypeptidase. The zinc most likely functions as a (an)

A competitive inhibitor of the enzyme.
B noncompetitive inhibitor of the enzyme.
C allosteric activator of the enzyme.
cofactor necessary for enzyme activity. D

8. Which statements about a competitive inhibitor are true?

I It binds to active site of the enzyme.
II Vmax unchanged.
III Km decrease.
IV Its effect is influenced by increases in substrate concentration.
V Its molecular shape in not similar as that of a substrate.

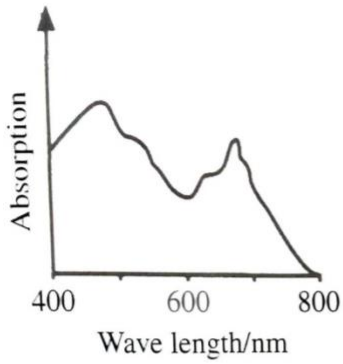
A I and II B I, II and IV
C I, III and IV D II, III and V

9. Which of these are the advantages of enzyme immobilisation?

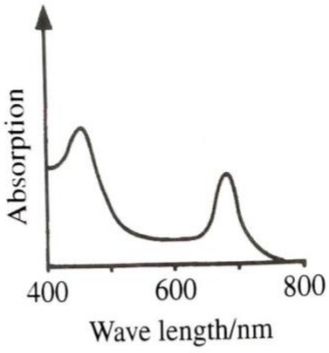
I The enzyme can be re-used
II The products of the reaction are not contaminated by the enzyme
III It sometimes makes the enzyme more stable
IV The characteristics of the enzyme could be altered to increase its effect

A I, II and III B I, II and IV
C I, III and IV D II, III and IV

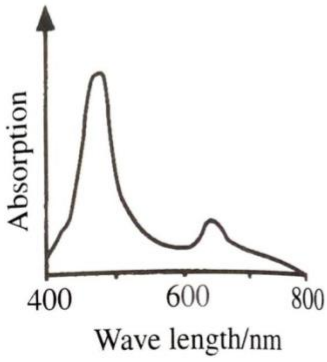
13. Which of the following graph represents the absorption spectrum for chlorophyll a?



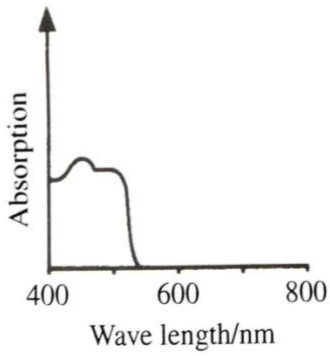
A



B



C



D

14. In the cytoplasm of a leaf cell for CAM plant, carbon dioxide is fixed at night to form a substance. This substance must be stored in the cell vacuole until day time because it

A will affect the pH of the cell cytoplasm
B dissolves quickly and will diffuse out from cell
C is osmotically active and must be separated
D must be activated by enzymes in the cell vacuole

TAMAT SAMPEL

Suka sampel ini?

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