SAMPEL PERCUMA

Kertas Percubaan STPM Penggal 1 Biologi

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
- Blueprint 30 hari Semester 1 (setiap subjek)
- Semester 3: percubaan 2024, 10 subjek, banyak negeri, soalan + skema dalam satu fail

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Sampel bermula di muka surat sebelah

NAME: _____ **CLASS:** _____

964/1 **STPM 2024**

BIOLOGY (BIOLOGI)

PAPER 1 (KERTAS 1)

One and a half hours (Satu jam setengah)

MODUL PENTAKSIRAN PDPC SEMESTER 1 MODUL PENTAKSIRAN PDPC SEMESTER 1

MODUL PENTAKSIRAN PDPC

SEMESTER 1

NEGERI PAHANG

Instructions to candidates:

DO NOT OPEN THIS QUESTION PAPER UNTIL YOU ARE TOLD TO DO SO.

Section A – Objective questions (15 marks). Darken your answers in the OMR section below.

1	A	B	C	D
2	A	B	C	D
3	A	B	C	D
4	A	B	C	D
5	A	B	C	D

6	A	B	C	D
7	A	B	C	D
8	A	B	C	D
9	A	B	C	D
10	A	B	C	D

11	A	B	C	D
12	A	B	C	D
13	A	B	C	D
14	A	B	C	D
15	A	B	C	D

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, units should be quoted wherever appropriate.*

Answers may be written either in English or Malay.

Section A (Bahagian A)	
1 - 15	
Section B (Bahagian B)	
16	
17	
Section C (Bahagian C)	
Total (Jumlah)	

Section A [15 *marks*]

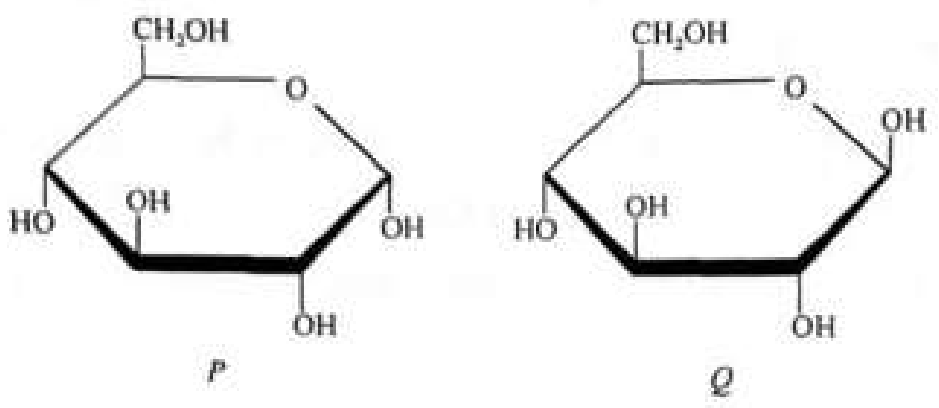
Answer **all** *questions.*

1. Which of the following statements are correct about water?

   I. When surrounded by water, non-polar molecules tend to be pushed apart from one another.
   II. Mammals rely on water having a relatively low latent heat of vaporisation to keep them cool.
   III. Water has a high specific heat capacity which maintains the temperature of water within cells.
   IV. When a negatively charged ion is added to water, the δ+ charge on the hydrogen atom is attracted to the ion.

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

2. Two structures of monosaccharides, P and Q, are shown in the diagram below.



   Identify the polymer that could be formed by the repeating monomers of P and Q.

	P	***Q***
A.	Starch	Cellulose
B.	Cellulose	Starch
C.	Cellulose	Glycogen
D.	Starch	Glycogen

3. The diagram shows two amino acids. Some of the hydrogen atoms are numbered 1 to 6.



Which two numbered hydrogen atoms could contribute to the production of a molecule of water when a peptide bond forms between these two amino acids?

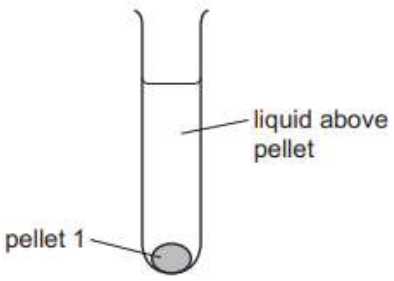
A. 1 and 4 B. 1 and 6 C. 3 and 5 D. 2 and 4

4. What is found in chloroplasts and mitochondria?

I. Circular DNA
II. 70S ribosomes
III. 80S ribosomes

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

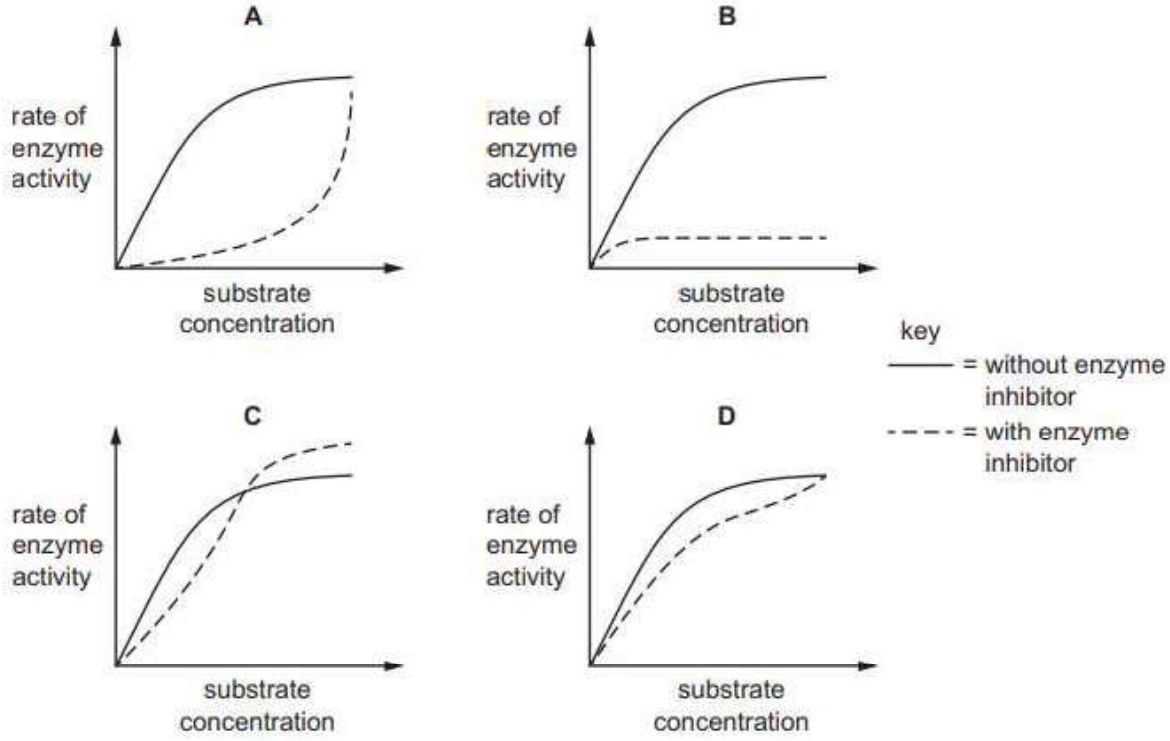
5. An experiment was carried out to separate the cell structures in an animal cell. The cells were broken open. The extract was filtered and put into a centrifuge tube. This tube was then spun so that the heaviest cell structure sank to the bottom first, forming pellet 1, as shown.



The liquid above pellet 1 was poured into a clean centrifuge tube and spun again at a higher speed to separate the next heaviest cell structure. This cell structure sank to the bottom, forming pellet 2. This procedure was repeated twice to obtain pellet 3 and pellet 4, each containing a single cell structure. What is a function of the cell structure extracted in pellet 1?

A. production of ATP
B. synthesis of protein
C. production of mRNA
D. digestion of old organelles

10. A student investigated the rate of enzyme activity with increasing substrate concentration. The experiment was repeated with the addition of a reversible non-competitive enzyme inhibitor. A graph was plotted to show the results. Which graph represents the results of the two experiments?



11. How many direct ATP are made if fructose-1,6-bisphosphate is put through glycolysis?

A. 0 B. 1 C. 2 D. 4

12. Based on the concentrations of hydrogen ions in the mitochondria, where would you expect to find the most acidic environment?

A. Cytoplasm
B. Mitochondrial matrix
C. Intermembrane space
D. Inner mitochondrial membrane

13. A solution in a beaker contains all of the enzymes necessary for undergoing glycolysis. A mole of glucose is mixed into the solution. No oxygen is present and no ATP is present. Does glycolysis occur?

A. No, because ATP is not present
B. No, because oxygen is not present
C. Yes, because glycolysis is anaerobic
D. Yes, because glycolysis is ATP independent

TAMAT SAMPEL

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