SAMPEL PERCUMA

Kertas Trial STPM Semester 1 Biologi Terengganu 2024

Set penuh: Kertas Percubaan STPM

Sem 1 · Biologi

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KEMENTERIAN PENDIDIKAN
JABATAN PENDIDIKAN NEGERI TERENGGANU

STPM 2024

PEPERIKSAAN PERCUBAAN SEMESTER 1

BIOLOGY

964/1

Nama :.....

Kelas :.....

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ANJAKAN MUAFAKAT NEKAD

Section A [15 marks]

Answer **all** questions in this section.

1 As a frozen lake warms after a cold winter, mineral nutrient is brought to the surface. Which of the following properties of water that contribute to this process?

I Its greatest density at 4°C
II Its molecule form hydrogen bonds
III It is a solvent
IV It has high specific heat capacity

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

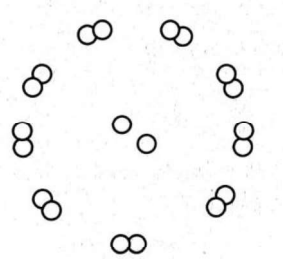
2 Which of the following enables proteins to function as a buffer?

A Proteins contain peptide bonds
B Proteins are soluble in water
C Proteins are amphoteric
D Proteins are non-polar molecules

3 The absence of nucleoli causes cells to die because they do not possess

A chloroplasts and are unable to undergo photosynthesis.
B Golgi apparatus and are unable to obtain energy.
C mitochondria and are unable to obtain energy.
D ribosomes and are unable to manufacture proteins.

4 The diagram below shows the arrangement of microtubules in a structure.



Which of the following has this type of microtubule arrangement?

I Cilium
II Myofibril
III Centriole
IV Flagellum

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

5 Which of the following component of the plasma membrane controls its fluidity and flexibility?

A Hydrophilic head of the phospholipid molecules
B Oligosaccharide chains attached to the peripheral proteins
C Cholesterol molecules
D Intrinsic proteins

6 Plasma membrane is selectively permeable to certain substances. Which of the following substances is/are not permeable to the cell surface membrane?

I Hydrophobic molecules
II Polar and tiny molecules
III Polar and large molecules
IV Ions

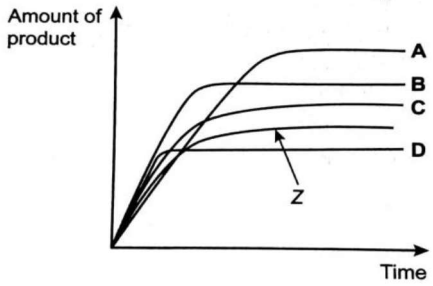
A IV only
B I and II only
C III and IV only
D I, II and III only

7 Which of the following are true of both enzymes and inorganic catalyst?

I Specific in action
II Required in small amounts
III Increase the rates of reaction
IV Unable to function

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

8 Line Z shows the activity of an enzyme at 25°C. Lines A, B, C and D show the effects of different conditions on enzyme activity.



Which of the following lines shows the effect of an increase in temperature and substrate concentration?

9 Which of the following are the advantages of enzyme immobilisation?

I The enzyme can be reused
II The reaction products are not contaminated by the enzyme
III It sometimes makes the enzyme more stable
IV The characteristics of the enzyme can 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

10 Which of the following substances are found in the mitochondrion during aerobic respiration?

A Glucose, malate, oxygen, ADP
B Pyruvate, malate,ADP
C Glyceraldehyde-3-phosphate, oxygen, phosphate, NADH+ H+
D Acetyl-coenzyme A, FADH2, ATP

11 Which of the following metabolic reactions do not involve the release of carbon dioxide?

I Pyruvate + coenzyme A→ Acetyl-Coenzyme A
II Malate→Oxaloacetate
III Pyruvate→Lactate
IV Acetyl-Coenzyme A +oxaloacetate → Citrate + coenzyme A
V Succinate→Fumarate

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

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TAMAT SAMPEL

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