SAMPEL PERCUMA

Kertas Percubaan STPM Semester 3 Biologi

Set penuh: Kertas Percubaan STPM

Semester 3 · 10 subjek (2024)

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Sampel bermula di muka surat sebelah

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

964/3 **TRIAL STPM 2024**

SIJIL TINGGI PERSEKOLAHAN MALAYSIA
BIOLOGY
PAPER 3

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*.

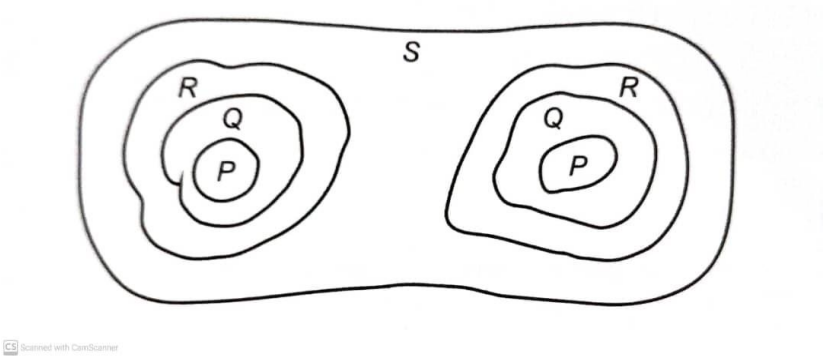
Indicate the correct answer on the Multiple-choice Answer Sheet provided.

1. What is the carrying capacity of an environment?
   A The maximum population an environment can support sustainably
   B The total number of individuals born each year
   C The number of species in an ecosystem
   D The amount of resources available per individual

2. Which of the following does not directly affect an environment's carrying capacity?
   A Availability of food
   B Temperature of the habitat
   C Number of offspring per individual
   D Amount of water available

3. Carrying capacity is most influenced by which of the following?
   A Reproductive rate of a species
   B Resource availability and habitat conditions
   C Migration of other species
   D The lifespan of the species

4. The Venn diagram below illustrates the relationship among four ecological terms – population, ecosystem, community and biome.



Which of the following represents P, Q, R and S?

	P	Q	R	S
A	Population	Community	Biome	Ecosystem
B	Population	Ecosystem	Community	Biome
C	Biome	Population	Community	Ecosystem
D	Population	Community	Ecosystem	Biome

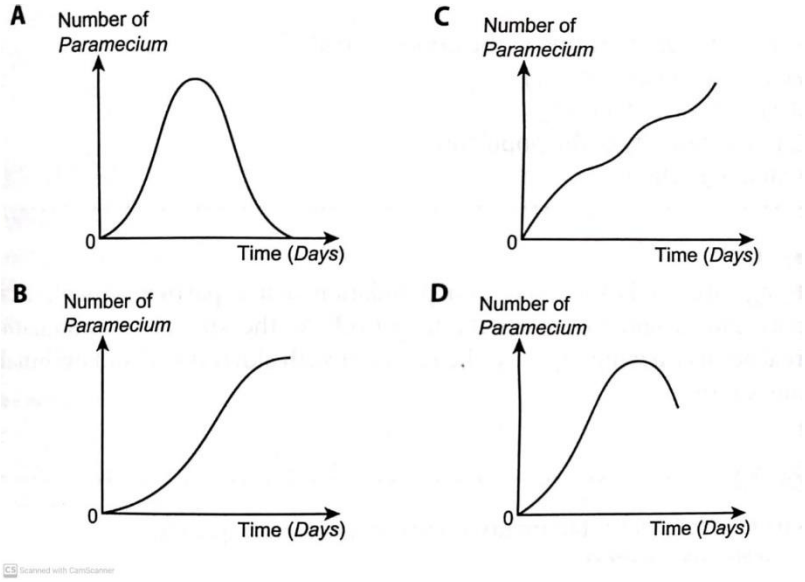
5. Which of the following statements appropriately describe a trophic level of an ecosystem?

I. Structured feeding relationship
II. Who eats whom in an ecosystem
III. A hierarchy of energy transfer
IV. The recycling of nutrient

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

6. A group of students conducted an experiment, where environmental conditions are

maintained constantly at 29°C, food is constantly added and toxic waste is discarded in a culture of ***Paramecium***. Which of the following graphs shows the growth of ***Paramecium*** population?



7. Plant sampling is done in an area which covers 2500 m^2. The number of plants in 25 quadrats each measuring 1m x 1m are shown below.

Number of plants in each quadrat

5	4	6	4	5
7	7	5	6	3
6	5	4	3	6
5	8	9	4	5
2	1	8	7	2

The total number of plants in an area of 10 000 m^2 is

A 125. B 12500 C. 500 D 50 000

8. Which of the following statements are true about genetic variation?

TAMAT SAMPEL

Suka sampel ini?

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