

BIOLOGY PAPER 1

SECTION B: Question-Answer Book B

This paper must be answered in English

INSTRUCTIONS FOR SECTION B

- After the announcement of the start of the examination, you should first write your Candidate Number in the space provided on Page 1 and stick barcode labels in the spaces provided on Pages 1, 3, 5, 7 and 9.
- Refer to the general instructions on the cover of the Question Paper for Section A.
- Answer ALL questions. (3)
- Write your answers in the spaces provided in this Question-Answer Book. Do not write in the margins. (4) Answers written in the margins will not be marked.
- Supplementary answer sheets will be supplied on (5) request. Write your candidate number, mark the question number box and stick a barcode label on each sheet, and fasten them with string INSIDE this Question-Answer Book.
- (6)Present your answers in paragraphs wherever appropriate.
- (7)The diagrams in this section are NOT necessarily drawn to
- No extra time will be given to candidates for sticking on the (8) barcode labels or filling in the question number boxes after the 'Time is up' announcement.

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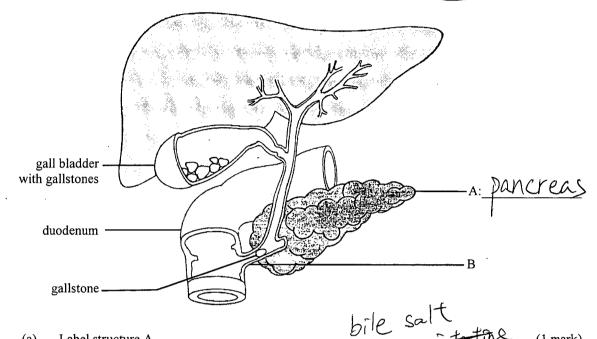
2021-DSE-BIO 1B-1

1

SECTION B

Answer ALL questions. Write your answers in the spaces provided.

The diagram below shows the presence of gallstones in some parts of the human digestive system:



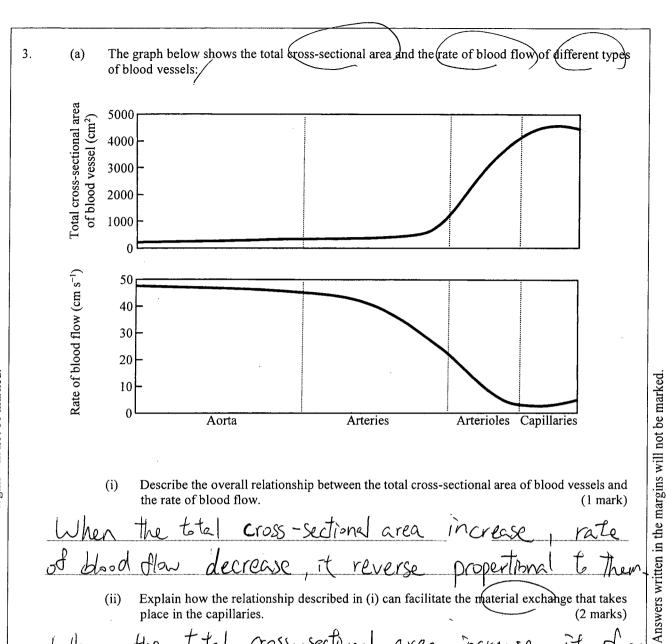
Label structure A. (a)

(1 mark)

Answers written in the margins will not be marked.

With reference to two components of the secretion released from duct B, explain how the condition shown in the above diagram would lead to a decrease in the rate of fat digestion. (4 marks) (b)

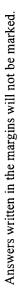
production

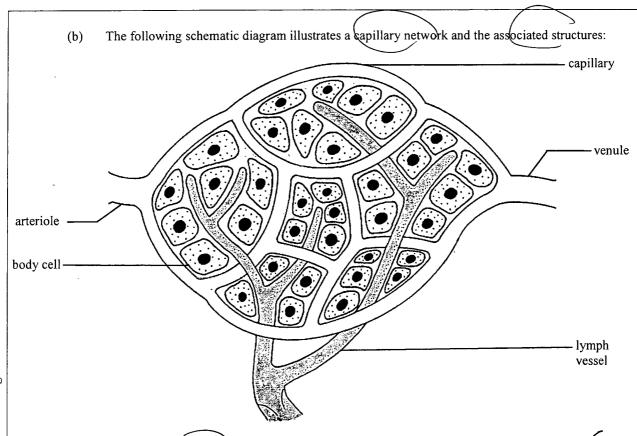


(i) Describe the overall relationship between the total cross-sectional area of blood vessels and the rate of blood flow. (1 mark)

Explain how the relationship described in (i) can facilitate the material exchange that takes place in the capillaries.







Features illustrated in the diagram	Importance to the material exchange
highly branched, dense Corpillary Network	maintain a steep concentration gradient between bled and tissue fluid
narrow lumen	generale high hydrostatic pressure to push material from blood to body cell Blood travel slower to have more time for material exchange.

With reference to two features of the capillary network illustrated in the above diagram explain the importance of these features to the material exchange in the capillary network. (4 marks)

4. Glycogen and a disaccharide named trehalose are two common types of energy reserve found in insect species A An experiment was conducted to study the energy reserve used for flying in this insect species. Three groups of insect species A were respectively injected with equal volumes of physiological saline, an inhibitor of trehalose-digesting enzyme and an inhibitor of glycogen-digesting enzyme. The insects were then stimulated to fly until they were exhausted. The flight time of each individual was recorded in the following table:

Solution injected	Samples of insect species A	Flight time (s)	Mean flight time (s)
	1	150	
	2	138	
physiological saline	3	168	165.6
Saime	4	210	
	5	162	
·	6	42	
inhibitor of trehalose-	7	78	0-
	8	114	85.2
digesting enzyme	9	90	
	10	102	,
	11	.132	
inhibitor of glycogen-	12	192	1/
digesting enzyme	13	174	163.2
digesting enzyme	14	162	
	15	156	

(a) Complete the above table by calculating the mean flight time (to the nearest 1 decimal place) for the groups injected with the respective inhibitors. (1 mark)

(b) With reference to the aim of the experiment, what conclusions can you draw from the data? Explain your answer. (4 marks)

Answers written in the margins will not be marked.

The aim of the experiment 13 to find the energy reserve
of the insect used for fly. The insect reserve trehalose
for fly is the conclusion as in the table, it shows
the mean flight time of the insect have a signifacent
drop when the inhibitor of trehalose digesting enzyme is adde
It prove that the flight time of the insect will addedled by
the digestion and storage of trehalose and dy in less time.
the digestion and storage of trehalose and they in less time. Other two didn't show any difference so they may be independent to the energy reserve for fly. (c) Among individual insects, suggest one difference which led to different flight times within each
independent to the energy reserve for fly. (c) Among individual insects, suggest one difference which led to different flight times within each
group (1 mark)

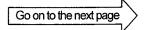
Size of the insect

5. A student prepared cells of an onion root tip for observing cell division under a light microscope.
(a) What type of cell division is likely to take place in the root tip of an onion Explain your answer. (2 marks)
Mitatic cell division. As no sexual reproduction
Mitatic cell division. As no sexual reproduction occur in root of plant and no gamete cell in there.
there.
(b) Suggest <i>one</i> necessary step to make the chromosomes observable under a light microscope. (1 mark)
Adding suitable due or indicator.
(c) Some events of the cell division are randomly shown in the following photomicrographs:
inter
leb
V
meta pro ana
INCO.
X Y Z
(i) Starting with photomicrograph W, arrange the photomicrographs in the correct order to show the sequence of events in cell division. (1 mark)
$w \rightarrow Y \rightarrow X \rightarrow Z \rightarrow V$

Photomicrograph Y

Z

(ii)



Number of chromatids

Answers written in the margins will not be marked.

number of chromosomes and chromatids in photomicrographs Y and Z.

A normal onion root cell has 16 chromosomes. Complete the following table to show the

Number of chromosomes

6.	Rathogen X is a pathogen that infects humans. Research has discovered an antigen Y present on the surface of pathogen X. Using recombinant DNA technology, antigen Y can be produced and serves as a vaccine to induce immunity against pathogen X.
	(a) Explain how the injection of antigen Y can induce immunity against pathogen X. (4 marks)
	Antigen I that is not harmful to human is injected to human
	body. The immune system detect foreign antigen, so it
	activate the B cell in white blood cell in lymph. The B
	cell activate T cell to help and produce plasme with
	antibody specific to antigen Y. The memory B and T
	Call will mamarise the autron of when the hout

(b) Other than the use of recombinant DNA technology suggest another way to produce a vaccine.

(1 mark)

Extract antibody from recovered animal

Answers written in the margins will not be marked.

(c) Refer to the codon table below, answer the questions that follow:

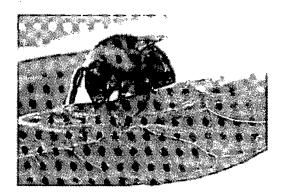
UUU	Phe	UCU		UAU	Tyr	UGU	Cua
ЩС	Phe	UCC	S 0	UAC	i yı	UGC	Cys
(AUU)	Leu	UCA	Ser	UAA	STOP codon	UGA	STOP codon
QUÒ	Leu	UCG		UAG	STOP COGOII	UGG	Trp
CUU		CCU		CAU	His	CGU	
CUC	Leu	CCC	Pro	CAC	Піз	CGC	Δ = α
CUA	Leu	CCA	PIO	CAA	Gln	(CGA	Arg
CUG		CCG		CAG	Gin	CGO	
AUU		(ACD)		AAU	Asn	AGU	Ser
AUC	Ile	ACC	Thr	AAC	ASII	AGC	361
AUA		ACA	1 111	AAA	Lva	AGA	A = 0
AUG	Met	ACO		AAG	Lys	AGG	Arg
GUU		GCÚ		GAU	Aan	GGU	
GUC	Val	GCC	A la	GAC	Asp	GGC	Gly
GUA	v ai	GCA	Ala	GAA	Chi	GGA	Gly
GUG		GCG		GAG	Glu	GGG	

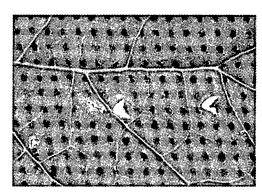
_	LUC CGG UUU UU
	templet TT+V +HII adiap
A -	XG HALL CACE OF
	(i) The starting sequence of the coding strand of the gene which encodes antigen Y is shown below:
-	ATG GCC ATA AAT TGC TGT Referring to the codon table, write the corresponding amino acid sequence of the coding strand shown above. (2 marks)
	Tyr - Arg - Tyr - Leu - Thr - Thr (ii) Over the years, mutation has occurred in the gene encoding antigen Y in different strains of pathogen X The variations in the starting sequence of this gene are shown below:
be marked.	original strain: ATG GCC ATA AAT TGC TGT
the margins will not be marked	One of these strains has the ability to infect people who have been injected with the vaccine containing antigen Y/With reference to the codon table, which strain (P, Q or R) will that be? Explain your answer. (4 marks)
Answers written in the	mutated triplet code will produce different type of amino acid, so the separace will
Answe	change in structure so the immure
	system cannot identify it again, so the people vaccinated still got intected.

7.	(a)	In flowering plants, environmental stress (i.e. under adverse conditions) in general can induflowering. Explain why this flowering response can increase the chance of survival of flowering plants. (3 mark	ıg
	The	flowering can help seed of the plant spread	

futher away from the stress and grow in a better place, Howevering also preserve the genetic information so it can grow when the stress is gone.

(b) Recently, scientists observed that bees cut tiny holes in leaves with their mouthparts (as shown in the photographs below) but did not consume or transport the leaf fragments:





Answers written in the margins will not be marked.

It has been hypothesised that bees induce flowering by imposing a mechanical stress on the flowering plants to test this hypothesis, three groups of tomato plants at the same developmental stage (without floral bads) were subjected to the following treatments respectively:

- 1. Bees cut tiny holes in leaves (bee damage)
- 2. Similar holes in leaves were cut by using forceps (mechanical damage)
- 3. Intact leaves without treatment (no damage)

The time taken for flowering of each group of these tomato plants after the respective the treatment was recorded.

(i) If the above hypothesis is correct, what would be the predicted results? (1 mark)

Treatment 1 and 2 will occur the induce Howeving while 3 will not.

(ii)	The table	below	shows	the	time	taken	for	flowering	of	these	tomato	plants	after	the
	treatments	:/												•

	Bee damage	Mechanical damage	No damage
Average time taken for flowering after the treatment (days)	38	56	70

With reference to the data shown in the table discuss if the data support the hypothesis that bees induce flowering by imposing a mechanical stress on the flowering plants. (4 marks)

The date cannot support the hypothesis. As of the bee help induce flowering by imposing mechanical stress the result of bee damage and mechanical damage should be similar. While they have a large diotherent of days needed. So we cannot deduce the bee only give mechanical damage to plant although both bee damage and mechanish damage show is decrease of day of flowering

(c) When bees establish a new colony, they will inflict more leaf damage to the surrounding flowering plants if the colony is in an area with insufficient supply of poller. What is the advantage of this behaviour to the bees? (1 mark)

More supply at food as inducing thousing will increase supply at pollen.

Answers written in the margins will not be marked.

8	The table below shows the average blade area, blade thickness and thickness of the	e palisade mesonhyll of
0.		to punsado mesopina n el
	leaves collected from the upper and lower regions of a tree species:	

Location of leaves	Average blade area (cm²)	Average blade thickness (μm)	Average thickness of palisade mesophyll (μm)
· Upper region	62	177	45
Lower region	72	152	33

(a) Compare the average blade area of leaves from the upper region and that from the lower region. With respect to the difference in surface area, suggest *one* adaptive advantage of the leaves from the lower region (2 marks)

Upper region have less area while lower region have more area. To maximize the absorb amount of sun light.

(b) (i) Compare the average thickness of the palisade mesophyll of leaves from the upper region and that from the lower region. (1 mark)

Upper region has thicker palisable mesophyll

(ii) Between the two types of leaves, suggest *one* possible structural difference which would lead to the difference stated in (b)(i). (1 mark)

It can aborb more sunlight as

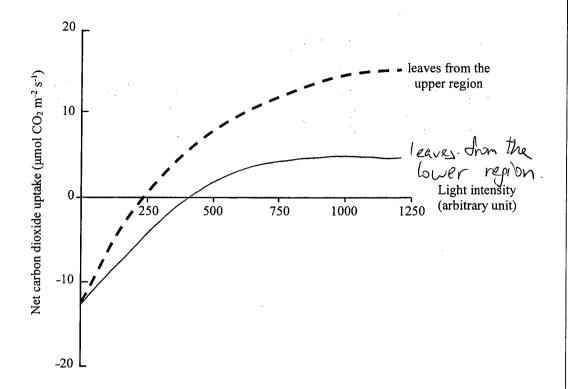
(iii) How would you confirm your answer in (b)(ii)?

(2 marks)

Answers written in the margins will not be marked.

Increase the bull replan.

(c) Leaves at different regions of a tree are adapted to different light intensities. The graph below shows the change in the net carbon dioxide uptake by leaves from the upper region of a tree at different light intensities:



(i) Why are there negative values for net carbon dioxide uptake?

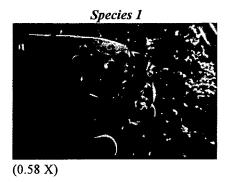
(1 mark)

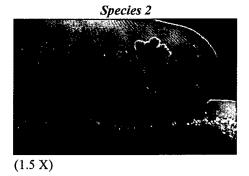
Answers written in the margins will not be marked.

synthesis

(ii) On the above graph, sketch a line to show the change in net carbon dioxide uptake by leaves from the lower region of a tree at different light intensities. (2 marks) (Note: Neglect the difference in the average blade area between the two types of leaves when you sketch the line.)

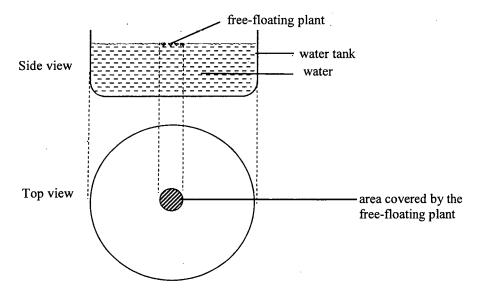
9. The photographs below show the appearances of two species of free-floating, freshwater plants, Species 1 and Species 2:



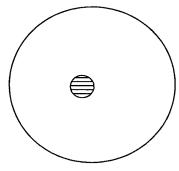


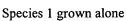
To study the interaction between these two plant species, each species was grown either alone or together with another species in a water tank for 50 days. Each species covered 10% of the area of water surface at the beginning of the experiment. The experimental set-up and design are shown in the following diagrams:

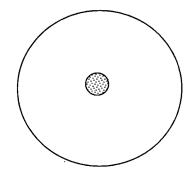
Experimental set-up:



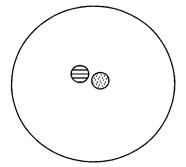
Experimental design (top view):







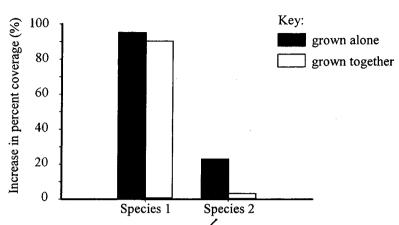
Species 2 grown alone



Answers written in the margins will not be marked.

Species 1 and 2 grown together

The percent coverage of each plant species was measured at the beginning and at the end of the experiment. The increases in the percent coverage are shown below:



(a) With reference to the aim of the experiment, what conclusions can be drawn about the interaction between Species 1 and 2? Explain your answer. (4 marks)

Conclusion 1: Species 2 is the dominant type species as it has higher percentage coverage nomether of grow done or together.

Conclusion 2: Species I is dominant while 2 is resserve as 9 have less drop of coverage when competing

(b) With reference to the photographs of Species 1 and 2, suggest an explanation for the difference in the percent coverage of the two plant species when they were grown together. (2 marks)

The competition of nutrient and resources so they both get less resources to now

(c) The table below shows two other methods of measuring plant growth and whether these methods would be feasible in this experiment. Complete the table by giving justifications for the feasibility of the methods. (2 marks)

Method	Feasibility	Justifications
Fresh weight	Feasible	gan be measure the weight differece by electrical to balance
Number of leaves	Not feasible	hard to count, a least size different.

Answers written in the margins will not be marked.

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41.

Answers written in the margins will not be marked.	
Answers w	

10. In humans, breast milk provides not only nutrients but also protective effects to infants. Recently, scientists discovered a new constituent of breast milk: short RNA fragments enclosed in vesicles. Scientists have very diverse views about the roles of these short RNA fragments. The following are two of the hypotheses:

Hypothesis 1: the short RNA fragments serve as food particles Hypothesis 2: the short RNA fragments regulate gene expression in infants

(a) To test Hypothesis 1, scientists performed an experiment of *in vitro* digestion of breast milk. The method is shown below:

Method of in vitro digestion with 20 mL of fresh breast milk

Step 1	Addition of hydrochloric acid solution
Step 2	Addition of enzyme mixture 1
Step 3	Incubation at 37°C for 20 minutes
Step 4	Addition of sodium hydrogen carbonate solution
Step 5	Addition of enzyme mixture 2
Step 6	Incubation at 37°C for 30 minutes
Step 7	Incubation at 85°C for 3 minutes
Step 8	Measurement of the level of short RNA fragments and nucleotides

(i)	With reference to the digestion in the human body, what is the importance	of Step 1 and
	Step 4 to the experimental design of this in vitro experiment?	(3 marks)

115 the enzyme may need a acidic
environment to facilitate the enzyme activity.
environment to facilitate the enzyme activity. In human body We can secrete by ourselve but it is absent in vitro so need to
but it is absent in vitro so need to
add.
(ii) What is the purpose of Step 7? (1 mark)
denoture the enzyme.
(iii) After the <i>in vitro</i> digestion, the level of short RNA fragments in the reaction mixture was similar to that of fresh breast milk and no nucleotides were detected. Explain why the results disprove Hypothesis 1. (2 marks)

(b)	Scientists will one example of				igning experim	nents to test Hypothe	esis 2. Suggest (1 mark)
	How	the	o sh	ort	RNA	from er	rt
re	bulate	the	seno	PXI	oressibn	<i>,,</i> ,	
(J				

You are required to present your answer to the following question in essay form. Criteria for marking will include relevant content, logical presentation and clarity of expression.
Variations are important to the continuity of a population Discuss how these variations are brought about within a population and how variations can enable the population to cope with the diverse environmental conditions and environmental changes over time. (11 marks)
The variations is brought by these. Firstly genetic variations occur when sexual reproduction of organism in gamete cell, crossing over
or do mirant and ressure allele create variations
organism to create variation and the survive one
organism to create variation anothe survive one be the fittest. Next, speciation will make I
Spe ciles Meurry variations,
The variations help cope with diverse
environmental conditions as different variation will increase the diversity of the species,

environmental conditions as different variation will increase the diversity of the species.

When the condition charged, the variations that can survive the bast can be reproduce so the species will not extinct easy of all species will deal,

2021 DSE (C)

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香港中學文憑考試 HONG KONG DIPLOMA OF SECONDARY EDUCATION EXAMINATION

答題簿

ANSWER BOOK

考生須知

- (一) 宣布開考後,考生須首先在第 1 頁之適當位置填寫考生編號,並在第 1、3 及 5 頁之適當位置貼上電腦條碼。
- (二) 每題(非指分題)必須另起新頁作答,並須在每一頁的相應 試題編號方格填畫「X」號,以表示選答的題號(見下例), 並在第一頁之適當位置填寫作答的試題編號。
- (三) 紙張兩面均應使用,並應每行書寫。不可在各頁邊界以外 位置書寫。寫於邊界以外的答案,將不予評閱。
- (四) 如有需要,可要求派發方格紙及補充答題紙。每一紙張均 須填寫考生編號、填畫試題編號方格、貼上電腦條碼,並 用繩縛於**簿內**。
- (五) 試場主任宣布停筆後,考生不會獲得額外時間貼上電腦條碼及填畫試題編號方格。

INSTRUCTIONS

- (1) After the announcement of the start of the examination, you should first write your Candidate Number in the space provided on Page 1 and stick barcode labels in the spaces provided on Pages 1, 3 and 5.
- (2) Start each question (not part of a question) on a new page. Put 'X' in the corresponding question number box on each page to indicate the appropriate question number (see the example below), and write the question number(s) of the question(s) attempted in the space provided on Page 1.
- (3) Write on both sides using each line. Do not write in the margins. Answers written in the margins will not be marked.
- (4) Graph paper and supplementary answer sheets will be supplied on request. Write your Candidate Number, mark the question number box and stick a barcode label on each sheet, and fasten them with string INSIDE this book.
- (5) No extra time will be given to candidates for sticking on the barcode labels or filling in the question number boxes after the 'Time is up' announcement.

例 Example:

試題編號 Question No. = 3

Г	試題	編號	Ques	tion N	lo.								
	1	2	3	4	5	6	7	8	9	10	11	12_	
			X										
-	13	14	15	16	17	18	19	20	21	22	23	24	≥25

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試題編號	4
Question No.	·

	試題編號 Question No. 1 2 3 4 5 6 7 8 9 10 11 12	
	每題另起新頁作答。 13 14 15 16 17 18 19 20 21 22 23 24 ≥25 Start each question on a new page.	
	(a)(i) The increase intensity of exercise will increase both heart rate and blood lactate concentration. (a)(ii) During the exercise anarobic respiration occur	
寫於邊界以外的	so there are lactic acid formed as product in blood. As the intensity of exercise increase, rate of anarobic respiration increase to produce more energy, as the result more lactic acid form	寫於邊界以外
的答案,將不予	in blood as usual.	的答案,將不予評閱
not be marked. 。 留述	will generate neurotransmitter to stimulate	not be marked. 。
		_
Answers written in the margins will	(iv) Firstly, the heart rate is slower than Billy at rest and during exercise. It may prove that as a athlete, regular exercise strengthen the heart muscle of Africe so it can pump more blood	Answers written in the margins wil
	Muscle of Alice 2011 can pump more blood	ı

	13 14 15 16 17 18 19 20 21 22 23
	1(a) (iv) at one pump. There number of pump t
	Then, blood lactate
€ ∃	then, blood lactate after exercise, it
寫於邊	and respiration rate
是界以外	Alice.
的答案,	(b)(i) receptor is hypothalamus
將 不 予	(ii) Under high temper secrete, more si
評 閱	secrete more si
°	Sweat on the sk
narked	the body, so the a
n the margins will not be marked.	Gool down the
rgins w	(iii) The hypertonic condition
	(iii) The hypertonic condition higher temperature is
Answers written i	(iv) It can prevent to
Answ	body under high dehydration and
	1

試題編號 Question No.

每題另起新頁作答。 Start each question on a new page.

1(a) (iv) at one pump. Therefore Alice required less number of pump to transport the blood. Some has a
number at pump to transport the blood . Guir hearte
then, blood lactate concentration is higher in Alice after exercise, it prove that more energy is used and respiration rate and afficiency is higher in the Alice.
After exercise, it prove that more energy is used
and respiration rate and afficiency is higher in is
Thice.

(b)(i) receptor is hypothalamus, extector is pituitary gland。當
(ii) Under high temperature, the sweat gland will secrete more sweat, the evaporation of the
secrete, more sweat, the evaporation of the
Sweat on the skin will take heat away from
the body, so the amount of sweat increase to
Cool down the body,
(iii) the hypertonic Condition of blood can help tolerate
The body, so the amount of sweat increase to Cool down the body. (iii) The hypertonic condition of blood can help tolerate higher temperature without increase sweating.
(iv) It can prevent to much water loss from the body under high temperature. It may cause dehydration and make cell died.
dela lation of and make cold did
wayona (IVI) so over more cen area.

24

≥25

	1 2 3 4 5 6 7 8 9 10 11 12 □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	
寫於邊界以外的答案,將不予評閱	in agar plate, so we can identify the suitable cell. The advantage is it can identify the needed cell that successfully insert the gene, the disadvantge will be creating a antibiotic resistance that may reduce the effect of antibiotic derivation	寫於邊界以外的答案,將不予評閱
Answers written in the margins will not be marked.		Answers written in the margins will not be marked.

試題編號 Question No.

	1 2 3 4 5 6 7 8 9 10 11 12
	每題另起新頁作答。 13 14 15 16 17 18 19 20 21 22 23 24 ≥25 Start each question on a new page.
寫於邊界以外的答案,將不予評閱。 in performation and policy and in the managinal ways.	Start each question on a new page. The primer at a content of the policy of the primer at a content of the policy of the primer at a content of the policy of the primer at a content of the policy of the primer at a content of the primer at a content of the primer at a content of the policy of the primer at a content of the primer at a cont

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名的 A C S S S S S S S S S S S S S S S S S S	Primer II. Use the same restriction enzyme to cut the fragment of gene X and PCR product, then put them under the negative pole of gel electrophoresis and let them migrate at required time. If PCR product is gene X, it will show simular or identical banding travel distance in the gel. **** **** **** **** **** **** *** ****

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