HONG KONG EXAMINATIONS AND ASSESSMENT AUTHORITY
HONG KONG DIPLOMA OF SECONDARY EDUCATION EXAMINATION 2015

# **BIOLOGY PAPER 1**

8.30 am – 11.00 am (2 hours 30 minutes) This paper must be answered in English

### **GENERAL INSTRUCTIONS**

- (1) There are **TWO** sections, A and B, in this Paper. You are advised to finish Section A in about 35 minutes.
- (2) Section A consists of multiple-choice questions in this question paper. Section B contains conventional questions printed separately in Question-Answer Book B.
- (3) Answers to Section A should be marked on the Multiple-choice Answer Sheet while answers to Section B should be written in the spaces provided in Question-Answer Book B. The Answer Sheet for Section A and the Question-Answer Book B for Section B will be collected separately at the end of the examination.

## INSTRUCTIONS FOR SECTION A (MULTIPLE-CHOICE QUESTIONS)

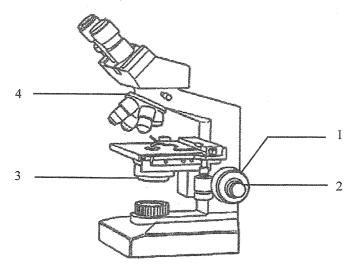
- (1) Read carefully the instructions on the Answer Sheet. After the announcement of the start of the examination, you should first stick a barcode label and insert the information required in the spaces provided. No extra time will be given for sticking on the barcode label after the 'Time is up' announcement.
- (2) When told to open this book, you should check that all the questions are there. Look for the words 'END OF SECTION A' after the last question.
- (3) All questions carry equal marks.
- (4) ANSWER ALL QUESTIONS. You are advised to use an HB pencil to mark all the answers on the Answer Sheet, so that wrong marks can be completely erased with a clean rubber. You must mark the answers clearly; otherwise you will lose marks if the answers cannot be captured.
- (5) You should mark only **ONE** answer for each question. If you mark more than one answer, you will receive **NO MARKS** for that question.
- (6) No marks will be deducted for wrong answers.

Not to be taken away before the end of the examination session

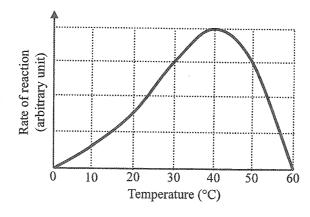
## There are 36 questions in this section.

# The diagrams in this section are NOT necessarily drawn to scale.

1. Which of the following parts of the microscope should be adjusted to obtain a clear and sharp image when you switch from low-magnification to high-magnification observation?



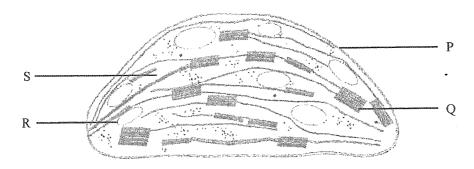
- A. 1 and 4 only
- B. 2 and 3 only
- C. 1, 3 and 4 only
- D. 2, 3 and 4 only
- 2. Which of the following processes requires metabolic energy?
  - A. glucose moves across the epithelium of the ileum
  - B. carbon dioxide moves across the wall of air sacs
  - C. oxygen moves into mesophyll cells
  - D. water moves along the xylem
- 3. The graph below shows the effect of temperature on enzyme activity:



Which of the following statements correctly describes the enzyme reaction?

- A. The enzyme is denatured at 0°C and 60°C.
- B. The reaction taking place at 50°C is faster than that at 20°C.
- C. There are more collisions between substrate and enzyme molecules at 40°C than 60°C.
- D. The amount of product collected at the end of the reaction is greatest if the reaction takes place at 40°C.

Questions 4 and 5 refer to the schematic diagram below, which shows the structures of a chloroplast:



- 4. Regeneration of the carbon dioxide acceptor takes place at
  - A. P.
  - B. Q.
  - C. R.
  - D. S.
- 5. Which of the following kingdoms contain organisms that possess the above organelle?
  - (1) Eubacteria
  - (2) Protista
  - (3) Plantae
    - A. (1) and (2) only
    - B. (1) and (3) only
    - C. (2) and (3) only
    - D. (1), (2) and (3)
- 6. Which of the following combinations correctly compares the aerobic respiration and anaerobic respiration of muscle cells?

	Aerobic respiration	Anaerobic respiration
A.	occurs only when oxygen is present	occurs only when oxygen is absent
B.	produces more NADH	produces less NADH
C.	glycolysis takes place	no glycolysis
D.	takes place only inside the mitochondria	takes place only in the cytoplasm

7. Which of the following combinations correctly matches the gland, the enzyme secreted and the optimum pH of the enzyme?

	Gland	Enzyme	Optimum pH
Α.	gastric gland	carbohydrase	2
B.	liver	lipase	8
C.	salivary gland	amylase	11
D.	pancreas	protease	11

- 8. After eating a hamburger, chemical digestion begins in the
  - A. mouth cavity.
  - B. oesophagus.
  - C. stomach.
  - D. small intestine.

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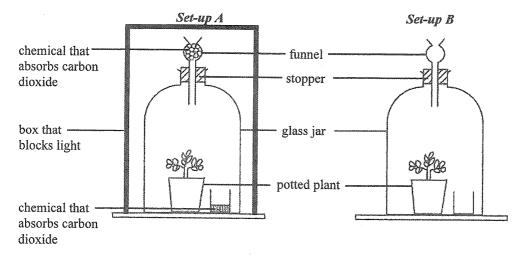
9. Which of the following combinations correctly describes the absorption of water in the alimentary canal?

	Occurs mostly in	Major reason
A.	ileum	it is the longest part of the digestive tract
B.	ileum	most digested food is absorbed in this region
C.	large intestine	its function is water absorption
D.	large intestine	absorption of food has completed in this region

- 10. After absorption in the small intestine, most fat is first transported to the
  - A. large intestine.
  - B. pancreas.
  - C. heart,
  - D. liver.

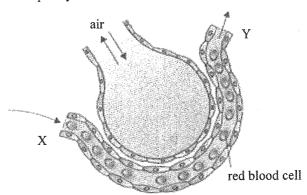
#### Directions:

Questions 11 and 12 refer to the following experiment. A student put two similar plants in darkness for 24 hours and then placed them in the following set-ups to conduct an investigation on photosynthesis:



- At the end of the experiment, leaves were taken from the plants in set-ups A and B for the iodine test. Arrange the following steps in the correct order:
  - (1) Put the leaf in boiling water for 5 minutes.
  - (2) Add iodine solution to the leaf.
  - (3) Put the leaf in hot alcohol solution for 5 minutes.
  - (4) Put the leaf in water at room temperature for a few seconds.
    - A. (1), (2), (3), (4)
    - B. (1), (3), (4), (2)
    - C. (2), (3), (4), (1)
    - D. (4), (3), (2), (1)
- 12. After the iodine test, the leaf taken from set-up A was brown while the leaf taken from set-up B was blue-black. Which of the following conclusions can be drawn from the results?
  - A. Light is necessary for photosynthesis.
  - B. Carbon dioxide is necessary for photosynthesis.
  - C. Both light and carbon dioxide are necessary for photosynthesis.
  - D. Photosynthesis occurs in the plant in set-up B but not in set-up A.

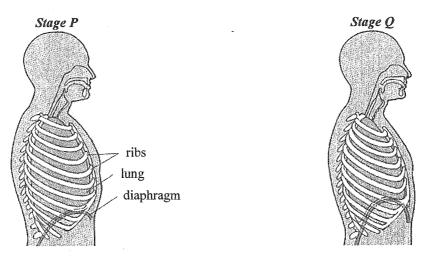
Questions 13 and 14 refer to the diagram below, which shows a section of an air sac and its associated blood capillary in humans:



Which of the following combinations correctly describes the changes in blood composition when blood flows from X to Y?

	Oxygen content	Glucose content	Urea content
A.	increases	remains unchanged	increases
B.	increases	decreases	remains unchanged
C.	remains unchanged	decreases	remains unchanged
D.	remains unchanged	remains unchanged	increases

- 14. As the blood in the capillary continues to flow, the red blood cell will first return to the
  - A. left atrium.
  - B. right atrium.
  - C. left ventricle.
  - D. right ventricle.
- 15. The diagrams below show the relative positions of the human respiratory system and its associated structures in two different breathing stages:

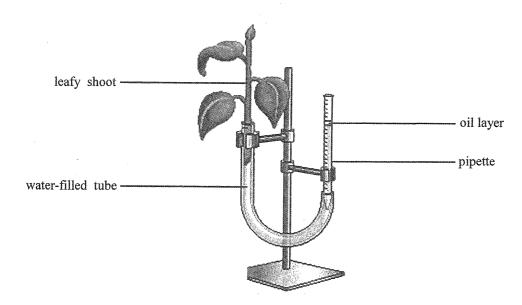


Which of the following statements correctly describes the change that takes place from stage P to stage Q?

- A. Pressure inside the lungs is increasing.
- B. Diaphragm muscle is contracting.
- C. Volume of the lungs is increasing.
- D. Rib cage is moving upward.

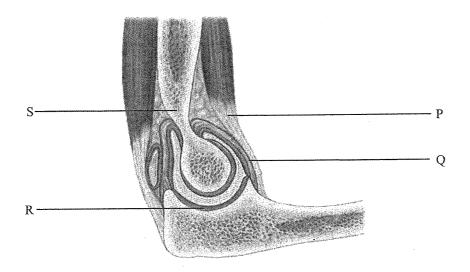
- 16. Variation in skin colour exists among different human races. Which of the following factors plays the major role in determining this variation?
  - A. exercise
  - B. nutrition
  - C. inheritance
  - D. exposure to sunlight

Questions 17 and 18 refer to the set-up below, which is used to measure the rate of transpiration of a leafy shoot:



- 17. The assumption behind the use of this set-up for measuring the rate of transpiration is that
  - A. the connections in the set-up are sealed off.
  - B. the rate of water uptake is equal to that of water loss.
  - C. the stomata of the leaves remain open throughout the experiment.
  - D. the cutting of the shoot does not introduce air bubbles into the xylem vessels.
- 18. Which of the following variables has the greatest influence on the rate of transpiration of the leafy shoot?
  - A. the area of the leaves
  - B. the thickness of the leaves
  - C. the length of the leafy shoot
  - D. the number of xylem vessels
- 19. Which of the following can be the functions of roots in flowering plants?
  - (1) anchorage
  - (2) absorption
  - (3) vegetative propagation
    - A. (1) and (2) only
    - B. (1) and (3) only
    - C. (2) and (3) only
    - D. (1), (2) and (3)

Questions 20 and 21 refer to the diagram below, which shows an elbow joint and its associated structures:



- 20. Which of the above structures are elastic?
  - A. P and R only
  - B. P and S only
  - C. Q and R only
  - D. Q and S only
- 21. Structure S is able to
  - (1) carry out respiration.
  - (2) store minerals.
  - (3) produce blood cells.
    - A. (1) and (2) only
    - B. (1) and (3) only
    - C. (2) and (3) only
    - D. (1), (2) and (3)
- 22. Toys are often used to develop children's fine motor skills. Which of the following parts is trained when children play with toys?
  - A. cerebellum
  - B. spinal cord
  - C. pituitary
  - D. medulla oblongata
- 23. Which of the following correctly compares reflex actions and voluntary actions?

### Reflex actions

- A. responses may vary
- B. stimulus is optional
- C. initiated by receptors
- D. effectors must be muscles

## Voluntary actions

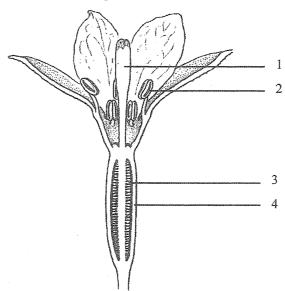
responses are always the same

stimulus is required

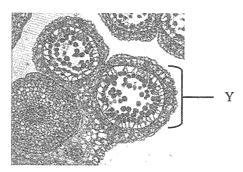
initiated in the brain

effectors can be muscles or glands

Directions: Questions 24 and 25 refer to the diagram below, which shows the structures of a flower:



- 24. Which structure will develop into the fruit wall?
  - A. 1
  - B. 2
  - C. 3
  - D. 4
- 25. The photograph below shows the cross section of structure 2.



Which of the following parts of the human reproductive system serves a function similar to that of Y?

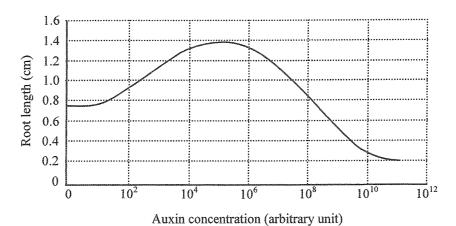
- A. ovum
- B. sperm
- C. testis
- D. ovary
- During pregnancy, amniotic fluid containing foetal cells can be obtained for karyotyping. This helps to determine whether the foetus
  - (1) is male or female.
  - (2) has Down syndrome or not.
  - (3) is a carrier of Sickle-cell anaemia.
    - A. (1) and (2) only
    - B. (1) and (3) only
    - C. (2) and (3) only
    - D. (1), (2) and (3)

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27. Which of the following combinations correctly shows the conditions of different parts of the eyes when a person is looking at an object moving towards him?

	Lens	Suspensory ligament
A.	becoming thinner	slackening
B.	becoming thinner	tightening
C.	becoming thicker	slackening
D.	becoming thicker	tightening

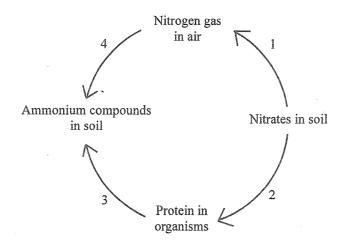
- 28. Which of the following parameters is best for measuring the growth of the broad bean after germination?
  - A. the length of the shoot
  - B. the area of the leaves
  - C. the weight of the embryo
  - D. the volume of the cotyledon
- 29. The graph below shows the average root length of germinating seeds irrigated with different auxin concentrations:



Which of the following can be deduced from the above graph?

- A. Auxins promote the elongation of the root.
- B. Auxins promote cell division that results in the elongation of the root.
- C. Auxins promote water absorption that results in the elongation of the root.
- D. Different concentrations of auxins result in differences in the extent of root elongation.

Questions 30 and 31 refer to the diagram below, which shows the conversion of some nitrogen-containing substances in nature:



- 30. Process 3 is
  - A. nitrification.
  - B. denitrification.
  - C. decomposition.
  - D. nitrogen fixation.
- 31. Which of the following processes does *not* require the action of bacteria?
  - A. 1
  - B. 2
  - C. 3
  - D. 4

Directions:

Questions 32 and 33 refer to the table below, which shows the results of blood tests for the presence of antigens and antibodies of hepatitis B in four individuals:

	Individual 1	Individual 2	Individual 3	Individual 4
Antigens of hepatitis B	Negative	Positive	Negative	Positive
Antibodies of hepatitis B	Negative	Negative	Positive	Positive

- 32. Which individual(s) would you recommend for vaccination against hepatitis B?
  - A. 1 only
  - B. 4 only
  - C. 1 and 2 only
  - D. 1 and 3 only
- 33. Hepatitis B is transmitted through
  - A. insects.
  - B. droplets.
  - C. body fluid.
  - D. skin contact.

		<ul><li>(2) Family history</li><li>(3) Overweight</li><li>(4) Radiation</li></ul>
34.	Which of th	e above factors can be controlled by lifestyle adjustment?
	A.	(1) and (3) only
	B.	(2) and (4) only
	C.	(1), (2) and (3) only
	D.	(1), (3) and (4) only
35.	Which of th	e above are risk factors for coronary heart disease?

Questions 34 and 35 refer to the list of factors shown below.

(1) Smoking

(1) and (3) only

(1), (2) and (3) only

- C. (1), (2) and (4) only
  D. (2), (3) and (4) only
- 36. Which of the following components of blood are involved in forming a blood clot?
  - (1) Blood platelets

A.

В.

Directions:

- (2) Red blood cells
- (3) White blood cells
  - A. (1) and (2) only
  - B. (1) and (3) only
  - C. (2) and (3) only
  - D. (1), (2) and (3)

END OF SECTION A
Go on to Question-Answer Book B for questions on Section B



2015-DSE 310

PAPER 1B

HONG KONG EXAMINATIONS AND ASSESSMENT AUTHORITY

HONG KONG DIPLOMA OF SECONDARY EDUCATION EXAMINATION 2015

# **BIOLOGY PAPER 1**

SECTION B: Question-Answer Book B

This paper must be answered in English

#### INSTRUCTIONS FOR SECTION B

- (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, 5, 7 and 9.
- (2) Refer to the general instructions on the cover of the Question Paper for Section A.
- (3) Answer ALL questions.
- (4) Write your answers in the spaces provided in this Question-Answer Book. Do not write in the margins. Answers written in the margins will not be marked.
- (5) 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 Question-Answer Book.
- (6) Present your answers in paragraphs wherever appropriate.
- (7) The diagrams in this section are **NOT** necessarily drawn to scale.
- (8) 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.

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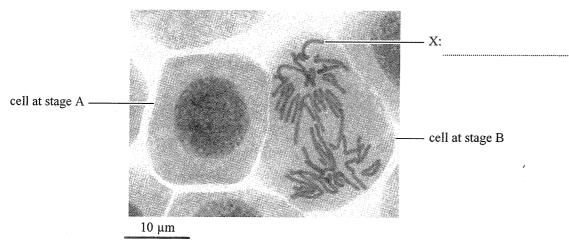
## SECTION B

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

For each of the ear parts listed in column 1, select from column 2 one phrase that matches it. Put the (3 marks) appropriate letter in the space provided.

Column 1		Colum	<u> </u>
Ear bones	Managaran	A.	Transmitting vibrations
Eustachian tube		B.	Transmitting sound waves
Cochlea		C.	Converting sound waves to vibrations
		D.	Converting vibrations to nerve impulses
· · · · · · · · · · · · · · · · · · ·		E.	Equalizing the air pressure on either side of the ear drum

Answers written in the margins will not be marked.



(a) Label structure X shown in the photomicrograph.

(1 mark)

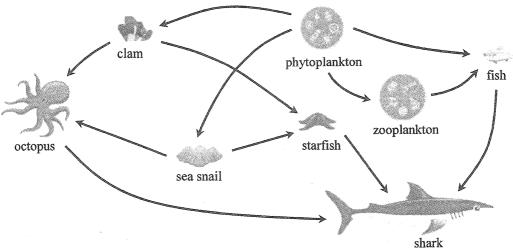
Answers written in the margins will not be marked.

(b) With reference to the appearance of the genetic materials shown in the photomicrograph, at which stage, A or B, is transcription more likely to take place? Explain your answer. (2 marks)

(c) In the space provided below, state the cause for the different outcomes of mitosis and meiosis.

(2 marks)

	Oute	come	
	Mitosis	Meiosis	Cause
Number of daughter cells	2	4	
DNA content in daughter cells	2N	1N	



(a) Write down the shortest food chain found in the diagram.

(1 mark)

(b) In the space provided below, draw the pyramid of numbers for the food chain in (a). (2 marks)

(c) Explain the shape of the pyramid of numbers drawn in (b).

(3 marks)

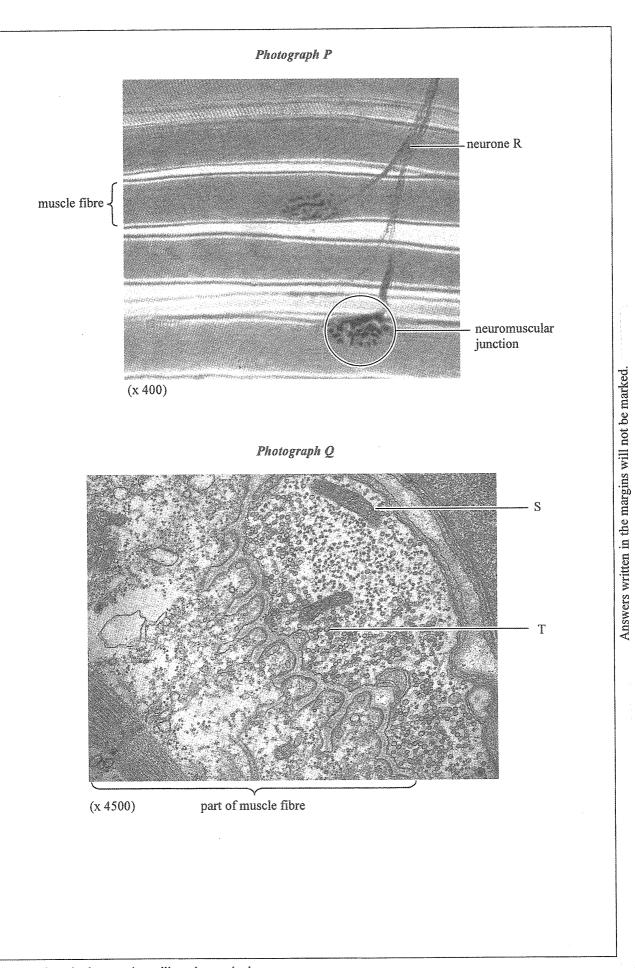
Answers written in the margins will not be marked.

(d)	Suggest two practical methods th	at allow	you to	confirm	the	feeding	relationships	among	various
	organisms in this ecosystem.							(2	marks)

Please stick the barcode label here.

(a)	Wha	at is Roger's blood type?	(1 ma
(b)	Give	en that:	
		I <sup>A</sup> represents the allele for producing antigen A on the surface of red blood I <sup>B</sup> represents the allele for producing antigen B on the surface of red blood i represents the allele that does not lead to the production of any antigens red blood cells	l cells
	(i)	Using the above symbols, state Roger's genotype.	(1 mar
**************************************	(ii)	Using the above symbols, state the genotypes of his parents.	(2 mark
Fath	ier:	Mother:	
(-)			
(c)	Expl	ain why Roger cannot receive blood transfusions from his parents.	(3 mark
(c)	Expl	ain why Roger cannot receive blood transfusions from his parents.	(3 mark
(c)	Expl	ain why Roger cannot receive blood transfusions from his parents.	(3 mark
(C)	Expl	ain why Roger cannot receive blood transfusions from his parents.	(3 mark
(C)	Expl	am why Roger cannot receive blood transfusions from his parents.	(3 mark
(C)	Expl	am why Roger cannot receive blood transfusions from his parents.	(3 mark
(c)	Expl	am why Roger cannot receive blood transfusions from his parents.	(3 mark
(C)	Expl		(3 mark

Answers written in the margins will not be marked.



Please stick the barcode label here.

	one R and Photograph Q shows the detailed structure of a neuromuscular junction.
(a)	Which type of neurones does R belong to? Give a reason for your answer. (2 mark
(b)	What is the functional relationship between S and T shown in Photograph Q? (2 mark
(c)	Describe how nerve impulses can be transmitted across the neuromuscular junction leading
	muscle contraction. (3 mark
	muscle contraction. (3 mark

6.	The t	table	below	lists	some	historical	developments	about	the	discovery	of	the	structure	of	cell
	memb	rane:													

Year	Scientists	Historical events
1895	Overton	Discovered that lipid-soluble substances could penetrate cells easily
1917	Langmuir	Discovered that the major component of cell membrane exhibited both water-loving and water-hating properties
1925	Gorter & Grendal	Extracted lipids from the cell membrane of red blood cells and spread the lipids in a single layer on a water surface; found that the area of the layer was double the surface area of the cell membrane
1972	Singer & Nicolson	Proposed the Fluid Mosaic Model to explain the structure of cell membranes

What is the major component noted by Overton and Langmuir?

(b)	Gorter and Grendal proposed that the major component identified in (a) existed as a bilayer (Bilayer Model). With reference to the observation of Langmuir, suggest how this major component is oriented and arranged in the cell membrane. Explain your answer. (3 marks)
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(1 mark)

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(c)	(i)	The Bilayer Model proposed by Gorter and Grendal did not mention another major component of the cell membrane. What is this component? (1 mark)
	(ii)	With reference to the Fluid Mosaic Model, briefly describe the orientation of this component in the cell membrane. (2 marks)
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(d)	Models are often used by scientists to explain their findings. Complete the following table to
	elaborate on the aspects of the nature of science involved in the use of scientific models. (2 marks)

Nature of science	Elaboration
Science is evidence based	
	Models are used to simulate an invisible structure or illustrate a theory.

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(4	Measure and record the volu	ıme of oxygen gas release		utes.
(5				1 1 41
(a) Suggest enzyme	an animal organ in which cate can be obtained. Explain why the	ilase is present in great is organ has so much cata	abundance and froilase.	om which the (2 marks
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			Y YY75 - 4 * - * - * - * - * - * - * - * - * -	O F
	dent has missed out an importance of this step.	it step in his drafted proc	cedure. What is it	? Explain the (2 marks
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measuring cylinder, boiling tube, one-hole stopper, glass tubing, rubber tubing, pipette, ink, water trough, clip

Choose the appropriate apparatus and materials to assemble a set-up for measuring the rate of oxygen production. Draw the set-up in the space below. (3 marks)

Set-up for measuring the rate of oxygen production

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Answers written in the margins will not be marked

Tests Blood glucose Insulin Glucagon	Results 8.4 0.2 130	Normal range 4-6 3-32 20-100	<u>Units</u> mmol L <sup>-1</sup> μU mL <sup>-1</sup> μg L <sup>-1</sup>
(a) State the type	of diabetes Lisa is suffering	g from.	(1 mark
(b) With reference blood tests.	ce to the production and acti	ions of the two hormones, accou	unt for the results of Lisa'
(i) Insulir	1		(3 marks
(i) Insulir			(3 marks
(i) Insulin			(3 marks
(i) Insulin			(3 marks

(c) Suggest two dietary habits that Lisa should establish.	(2 marks)

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9. The photographs below show the appearance of the leaves of a well-watered potted plant at 9 am and 1 pm on a sunny day in summer.

## Photograph X (9 am)



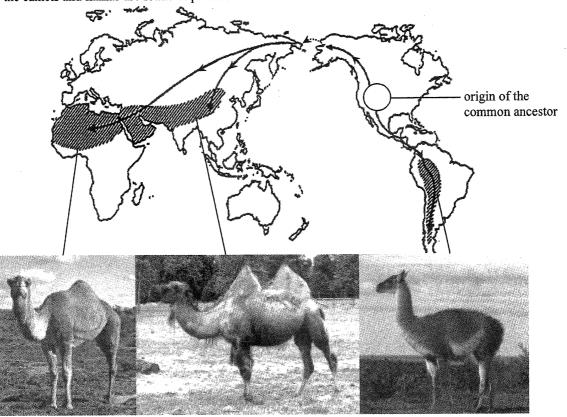
# Photograph Y (1 pm)



(a)	Briefly describe how the appearance of the leaves shown in photograph X is maintained.	(2 marks)
<b>н</b> нама <b>ни</b> нини		noncontractorism and an analysis
***************************************		
(b)	Suggest an explanation for the appearance of the leaves at 1 pm (Photograph Y).	(3 marks)
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(c)	With reference to the appearance of the leaves in the two photographs, which one is more for photosynthesis? Explain your answer.	effective (4 marks)
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Answers written in the margins will not be marked.

10. Fossil records suggest that camels in Africa and Asia and Ilamas in South America evolved from a common ancestor 6 million years ago. The diagram below shows the possible migration routes of the common ancestor at the time before the continents were separated and the locations (shaded areas) where the camels and Ilamas are found at present:



Camel in Africa

Camel in Asia

Llama in South America

(a) Based on the information given, draw a diagram to show the evolutionary tree of the three animals. (2 marks)

Evolutionary tree of camels in Africa and Asia and Ilamas in South America

(c) Suggest another way to establish the evolutionary relationship among the above animals.  (d) Give two limitations of fossil records as evidence for evolution.	h the evolutionary relationship among the above animals. (1 ma
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