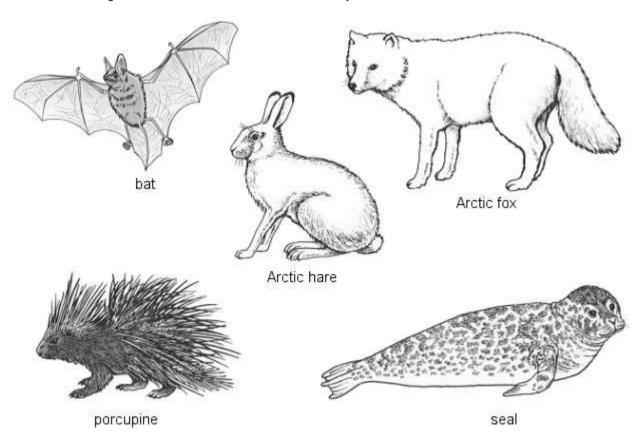
Environment and feeding relationships & Variations and classification

7C & 7D

31 min 31 marks *Q1-L3, Q2-L4, Q3-L4, Q4-L4, Q5-L5*

1. The drawings show five different mammals. They are **not** drawn to scale.



(a)		ch fact is only true a the correct box.	about mammal	s but not true about other	animals?	
		They can swim.		They have four legs.		
		They lay eggs.		They produce milk to feed their young.		
						1 mark
(b)		at the drawing of t hat way are bats ur		ls?		
						1 mark
(c)	Give	one way the seal i	is suited for mo	oving through water.		Tillaik
						1 mark
(d)		porcupine has spin do the spines help		o survive?		
	•••••					1 mark
(e)	In winter, the fur of the Arctic hare and the Arctic fox becomes thicker and turns white.					
	(i)	How does thick for the winter?	ur help an Arct	ic hare and an Arctic fox t	o survive during	
						1 mark
	(ii)	The Arctic fox hur How does white f		ctic hares. nares to survive in the sno	ow?	
						1 mark

maximum 6 marks

2. (a) The photograph below shows a team of dogs called huskies pulling a sledge across the ice.



Huskies need to survive in a cold climate. They must be able to pull a heavy sledge for a long time each day.

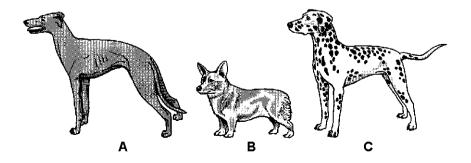
Which **two** features would a dog breeder look for when choosing huskies to breed from?

Choose from the list of features below and give the reason for each choice.

blue eyes fierce nature long tail
thick fur short legs strong muscles

1.	feature	
	reason	1 mark
		1 mark
2.	feature	ı mark
	reason	1 mark
	16a5011	
		1 mark

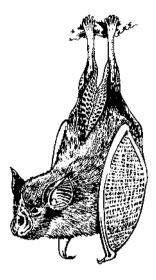
(b) The drawings below show three dogs. They all look different.



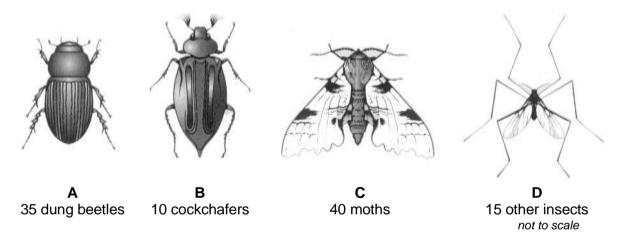
(i)	Which word de Tick the correc		rences between the	se dogs?	
	adaptation		reproduction		
	vaccination		variation		
					1 mark
(ii)	The drawing b	elow shows a pu	ppy. Dog C is the p	ouppy's mothe	r.
	Why does the Tick the correct	puppy look like het box.	is mother?		
	Information pa	ssed from the mo	other in an egg.		
	Information pa	ssed from the mo	other in a sperm.		
	Information pa	ssed from the mo	other in milk.		
	Information pa	issed from the mo	other in blood.		
					1 mark
					Maximum 6 marks

Medway LEA Advisory Service

3. The drawing shows a horseshoe bat.

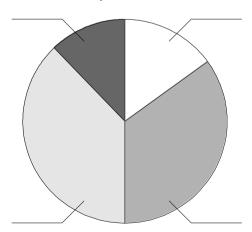


In an investigation, Val counted the number of insects a horseshoe bat ate. Her results are shown below.



(a) Valused the numbers of insects to draw a pie chart.

Write the letter of each insect by the correct section of the pie chart.

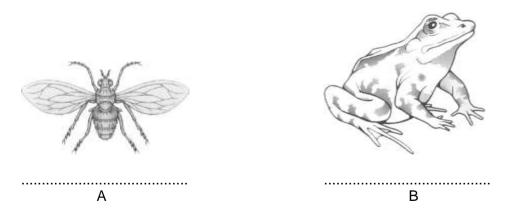


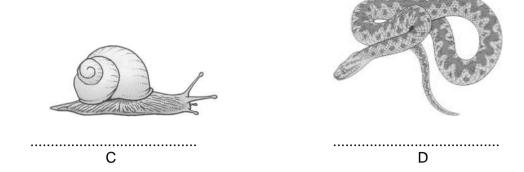
3 marks

(b)	Dun	g beetles eat dung (animal droppings).	
	(i)	Why are there lots of dung beetles in fields where cows are kept?	
			1 mark
	(ii)	Why do horseshoe bats live close to fields where cows are kept?	
			1 mark
(c)	(i)	Insecticides are used to kill insects. What will happen to the number of horseshoe bats if the insects are killed?	
			1 mark
	(ii)	Give one other reason why the number of horseshoe bats might change.	
			1 mark
		Maximum	7 marks
Fact	of th	e animals in the drawings below belongs to a different group.	
		he line hereath each drawing write the name of the group the enimal	

- 4.
 - On the line beneath each drawing, write the name of the group the animal belongs to. Choose names from the list below.

mammals molluscs reptiles amphibians crustaceans insects

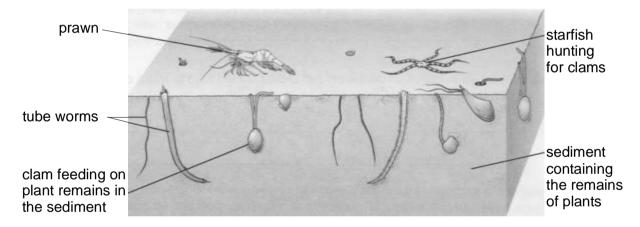




4 marks

(b)	Which of the animals drawn above are invertebrates? Give the correct letters.
	and and
	2 marks
	Maximum 6 marks

5. The drawing shows some of the animals which live at the bottom of the North Sea.



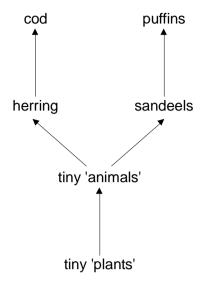
not to scale

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(a)	Suggest two advantages clams get from living in the sediment.		
	1		
	2		

2 marks

(b) Part of a food web in the North Sea is shown below. Herring, sandeels and cod are types of fish. Puffins are sea birds.



- Herring lay eggs in the gravel on the seabed.
- Sandeels live where the seabed is covered with sand.

Millions of cubic metres of gravel and sand are removed from the bottom of the North Sea every year for roads and buildings.

(i) Give **one** way removing some of the sand and gravel might cause the numbers of herring and cod to decrease.

herring	
	1 mark
cod	

1 mark

(ii)	Explain why removing some of the sand has led to a decrease in the number of puffins.			
	2 marks			
	Maximum 6 marks			