Practice Question Set For GCSE

Subject : Physics

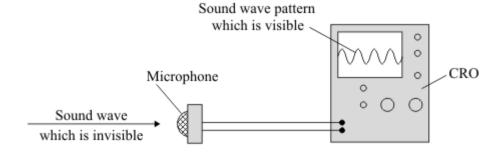
Paper-2 Topic: GCSE Triple Science_Waves (LDQ)



Name of the Student:		
Max. Marks: 17 Mark	s	Time : 17 Minutes

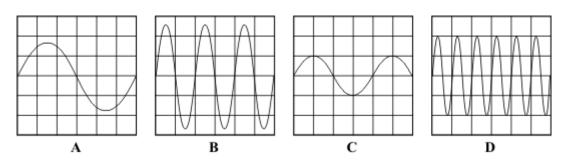
Q1.

A microphone and a cathode ray oscilloscope (CRO) can be used to show the pattern of a sound wave.



Four sound wave patterns, **A**, **B**, **C** and **D**, are shown.

They are all drawn to the same scale.

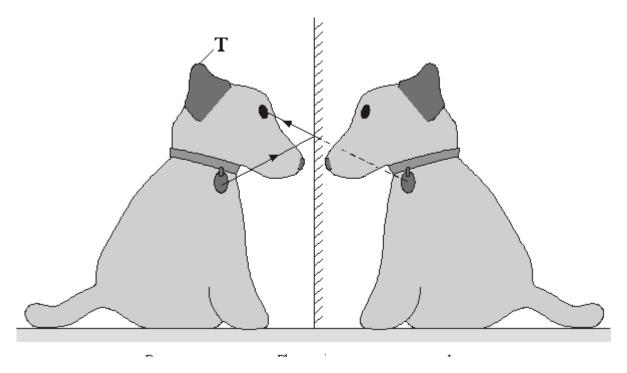


- (a) Which **one** of the patterns has the smallest amplitude?
- (b) Which **one** of the patterns has the lowest frequency? _____

(Total 2 marks)

Q2.

A puppy can see an image of himself in a plane mirror.



The diagram shows how the puppy can see his disc.

- (a) On the diagram, use a ruler to draw a ray to show how the puppy can see the top of his ear, which is marked as **T**.
- (b) What is a plane mirror?

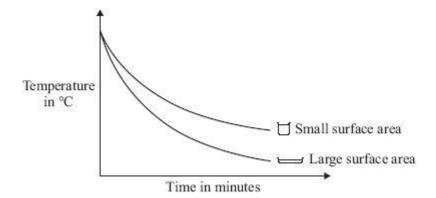
(1) (Total 4 marks)

(3)

Q3.

(a) The graph compares how quickly hot water cooled down in two glass beakers with different surface areas.

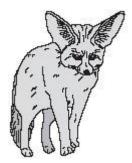
The volume of water in each beaker was the same.



Describe how the surface area of the water affected how fast the water cooled down.

(2)

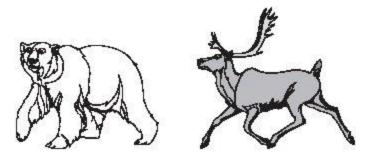
(b) Some foxes live in a hot desert environment.



This type of fox has very large ears.

Explain how the size of the fox's ears help it to keep cool in a hot desert.						

(c) Polar bears and reindeer are adapted to live in cold environments.



Use the words in the box to complete the following sentences.

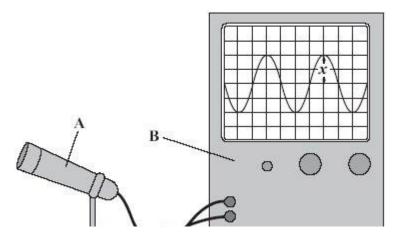
	conduction	convection	radiation	
(i)	The white colour of a pol	ar bear's fur helps to ke	ep the polar bear wa	rm by
	reducing the heat lost by		<u> </u>	
(ii)	The hairs of a reindeer a	re hollow. The air trappe	ed inside the hairs re	duces

the heat lost by ______.

(1) (Total 5 marks)

Q4.

(a) A student uses two pieces of equipment, **A** and **B**, to display a sound wave.



(i) Use words from the box to complete the sentence.

	a loudspeaker a microphone an oscilloscope a screen	
	A is and B is	
(ii)	Use words from the box to complete the sentence.	
	the amplitude half the amplitude the frequency half the frequen	су
	The distance x marked on the diagram measures of sound wave.	the
(iii)	Complete the sentence.	
	The distance x becomes smaller. This is because the sound has	
	become	
The	re is no air in space.	
Astr	onauts in space cannot hear sounds from outside their spacesuits.	
Ехр	lain this.	
		Total 6 ma