

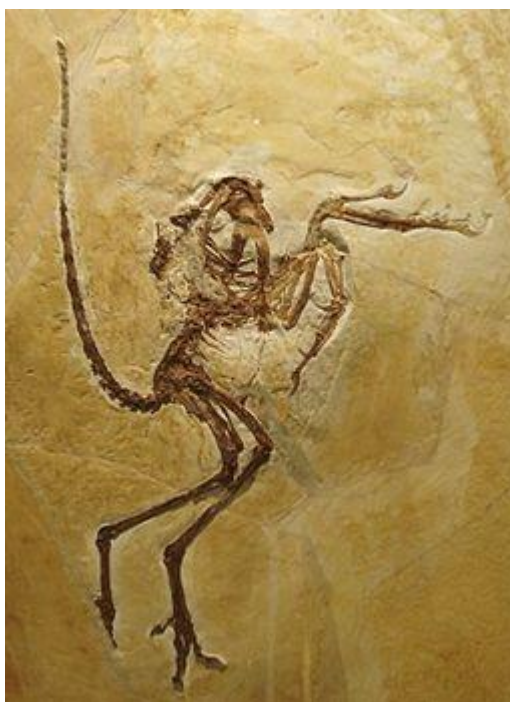
Name of the Student: _____

Max. Marks : 19 Marks

Time : 19 Minutes

Q1.

The photograph shows a fossil of a prehistoric bird called *Archaeopteryx*.



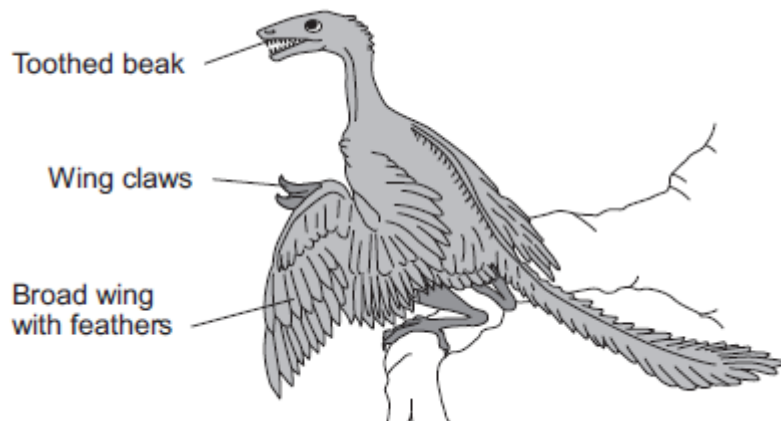
By Ghedoghedo (own work) [CC-BY-SA-3.0 (<http://creativecommons.org/licenses/by-sa/3.0>) or GFDL (<http://www.gnu.org/copyleft/fdl.html>)], via Wikimedia Commons; By Steenbergs from Ripon, United Kingdom (Small Fishing Boat In North Sea) [CC-BY-2.0 (<http://creativecommons.org/licenses/by/2.0>)], via Wikimedia Commons.

(a) Describe **three** ways fossils can be made.

(3)

(b) The drawing shows what an *Archaeopteryx* might have looked like when it was alive.

Scientists think that *Archaeopteryx* was a predator.



(i) Look at the drawing.

Write down **three** adaptations that might have helped *Archaeopteryx* to catch prey.

How would **each** adaptation have helped *Archaeopteryx* to catch prey?

Adaptation 1 _____

How it helps _____

Adaptation 2 _____

How it helps _____

Adaptation 3 _____

How it helps _____

(3)

(ii) *Archaeopteryx* is now extinct.

Give **two** reasons why animals may become extinct.

1. _____

2. _____

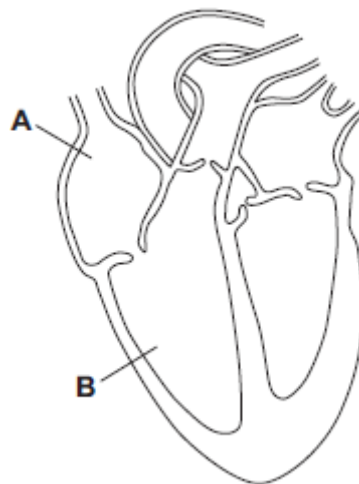
(2)

(Total 8 marks)

Q2.

Diagram 1 shows a section through the heart.

Diagram 1



- (a) Use words from the box to name the structures labelled **A** and **B** on **Diagram 1**.

aorta	atrium	pulmonary artery	ventricle
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A _____

B _____

(2)

- (b) The tissue in the wall of the heart contracts.

- (i) What type of tissue is this?

Tick (✓) **one** box.

muscular

☐

glandular

☐

epithelial

☐

(1)

- (ii) What does the heart do when this tissue contracts?

(1)

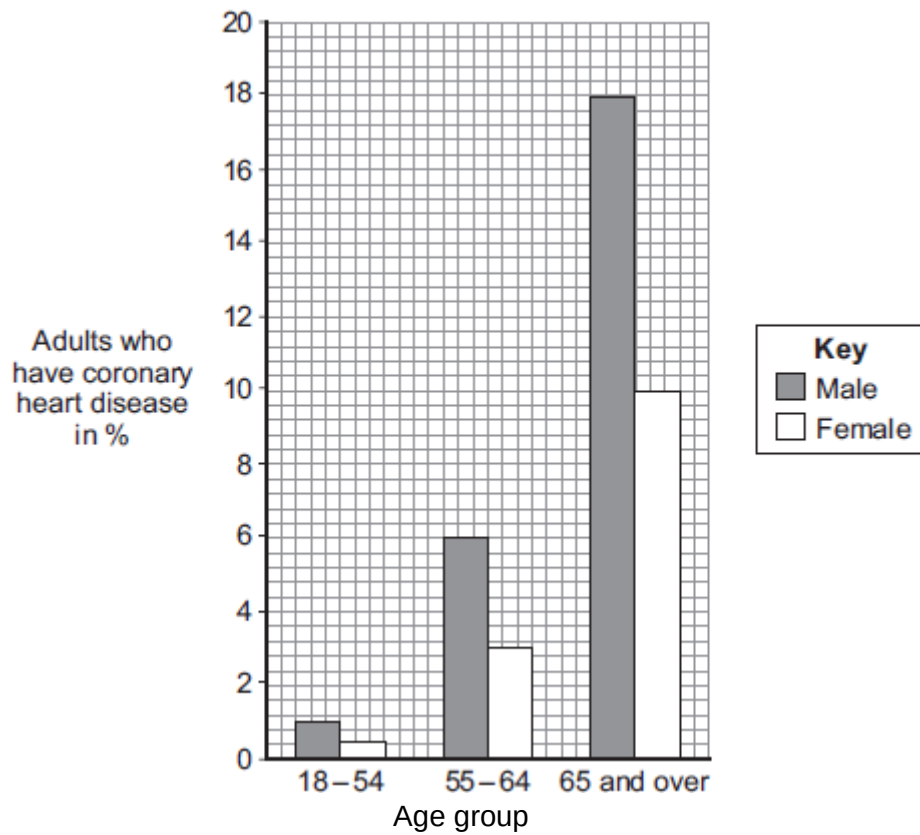
- (c) Draw arrows on **Diagram 2** to complete the route taken by deoxygenated blood through the heart.

Diagram 2



(2)

(d) The graph shows the percentage (%) of adults in the UK who have coronary heart disease.



(i) Look at the graph.

Which group of people is **most** at risk of having coronary heart disease in the UK?

(2)

(ii) Explain what happens to the heart in coronary heart disease.

(3)
(Total 11 marks)