

## **AS Level Biology B**

H022/02 Biology in depth

**Question Set 2** 

1 Technicians can use electrocardiograms (ECGs) to monitor the electrical activity of the heart.

Fig. 2 is an ECG trace of a person with a healthy heart.

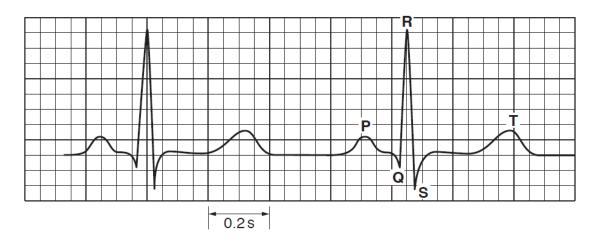


Fig. 2

(a) Using Fig. 2, calculate the heart rate to two significant figures.

Answer = ...... bpm [2]

**(b)** Supraventricular tachycardia (SVT) is a medical condition affecting the heart resulting in an abnormal heart rhythm.

One of the signs of SVT is that the atria do not contract correctly.

Using this information, describe how the ECG trace of a patient with SVT would differ from the trace shown in Fig. 2.

[2]

**(c)** Patients suffering from SVT for a prolonged period of time may suffer a heart attack and can go into cardiac arrest.

Describe the first aid procedure used to treat a patient suffering a heart attack **and** how the procedure would change if they later suffered a cardiac arrest.

[4]

## Question set mark total: 8



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