

AQA, OCR, Edexcel

GCSE Science

GCSE Biology

The Heart and Blood Vessels
Questions

Name:

M M E

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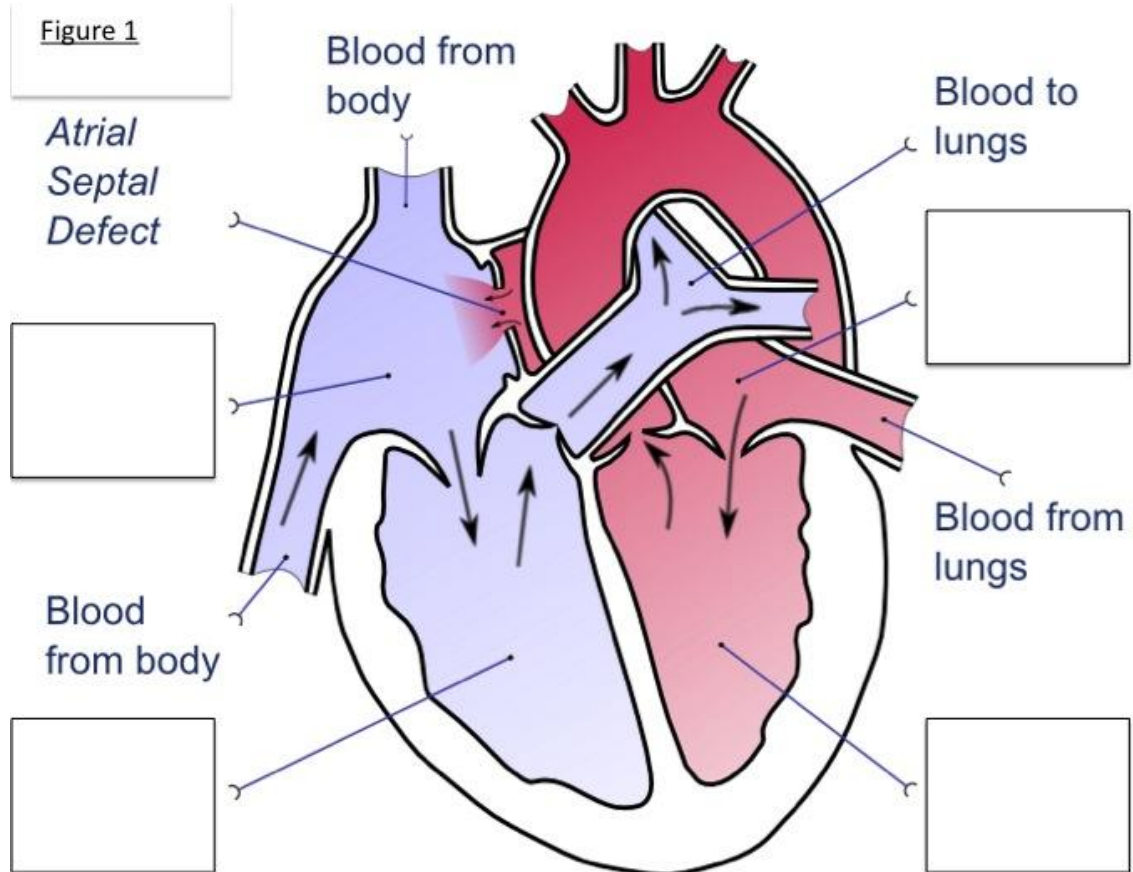
Total Marks: /27

Q1: The heart is part of which organ system?

_____ (1 mark)

Q2: Figure 1 shows a cross section of the human heart.

i) Label the 4 chambers of the heart shown in figure 1.



(4 marks)

ii) Which part of the circulatory system takes deoxygenated blood back to the lungs?

_____ (1 mark)

iii) Which part of the circulatory system does oxygenated blood leave the heart to travel around the body?

_____ (1 mark)

Q3: The heart is an example of a muscle. What sort of muscle is the heart? _____

(1 mark)

Q4: Using your knowledge of the heart explain how the heart is specialised to perform its function within the circulatory system.

(3 marks)

Q5: Calculate the cardiac output of the heart if it pumps at a rate of 80 beats per minute and has a stroke volume of 70ml.

_____ L/min

Q6: In a healthy heart what prevents the back flow of blood?

(1 mark)

Q7: What are the 3 types of blood vessels?

1: _____

2: _____

3: _____

(3 marks)

Q8: What is the role of the capillaries in the circulatory system.

(1 mark)

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Q9: Discuss the functions of the 3 types of blood vessels.

(6 marks)

Q10: Explain what happens to the heart to meet the demands of exercise.

(2 marks)

Q11: How can the change in heart rate be measured?

(1 mark)