

9.1 Circulatory systems

Name: _____ Class: _____ Date: _____

Total: 8 marks

KEY WORDS circulatory system 循环系统 • heart 心脏 • mammal 哺乳动物 • oxygen 氧气
• blood vessels 血管

Objective

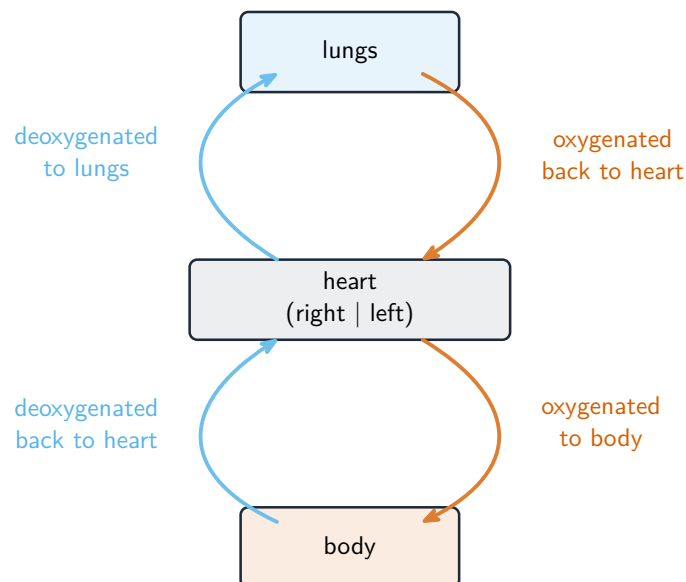
Build the skills to answer exam questions on **circulatory systems** 循环系统 — the parts of the system and **single vs double circulation** 单循环/双循环.

You must be able to:

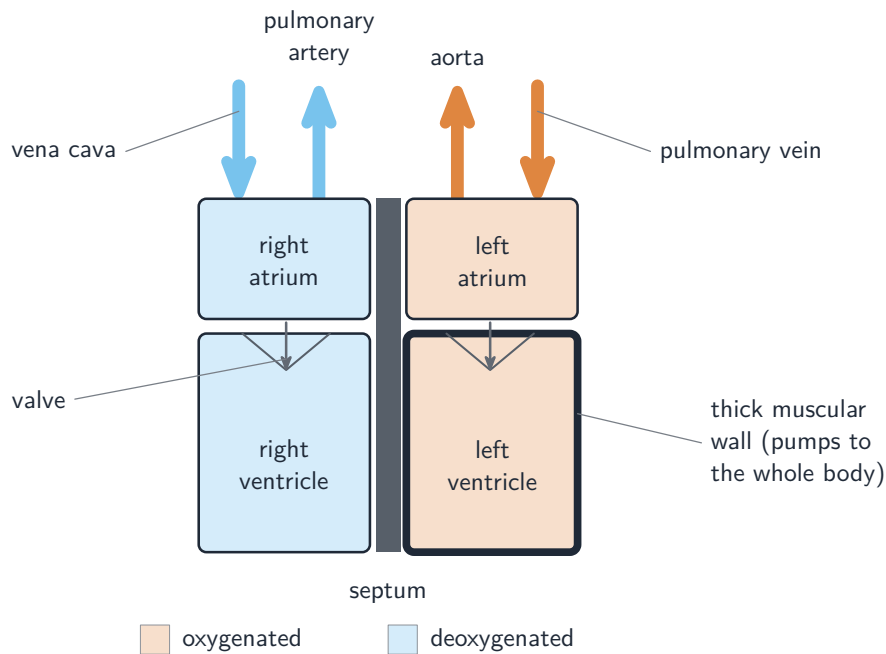
- name the parts of the circulatory system
- compare single and double circulation
- explain the advantage of a double circulation

1 Worked examples

■ Double circulation



Mammals have a double circulation — blood passes through the heart twice each trip



The heart pumps the double circulation

- **system:** a pump (heart), blood vessels, valves (one-way flow).
- **advantage:** blood is re-pumped at high pressure before going to the body → fast oxygen delivery.

2 Practice

2.1 Name the three parts of the circulatory system.

[3]

2.2 State how many times blood passes through the heart in a single circulation.

[1]

3 Exam-style questions

3.1 In a double circulation, blood passes through the heart:

[1]

A	B
C	D

A once per trip

B twice per trip

C never

D four times per trip

3.2 Mammals have a double circulation.

(a) State the advantage of a double circulation. [2]

(b) State the job of the valves in the circulatory system. [1]
