B3.2 Transport (HL)

What the Cell · DP Biology · note-taking sheet · HL statements B3.2.11–18

Name _____ **Date** _____

How to use this sheet: go through the slides and videos with it, then close them and write from memory. Use your own words and add page numbers from the book (pp. 310–325) where you want more detail.

Guiding questions. Which adaptations help animals and plants move fluids around? How does transport in animals compare with transport in plants?

B3.2.11–13 Tissue fluid and lymph

How tissue fluid forms and returns. How it differs from plasma. How lymph vessels drain it.

B3.2.14 Single and double circulation

Draw both circuit diagrams and give one advantage of the double circulation.

B3.2.15–16 The heart and the cardiac cycle

Trace blood from the vena cava to the aorta. Give one adaptation for each: cardiac muscle, SA node, atria, ventricles, AV valves, semilunar valves, septum, coronary vessels.

Stages of the cardiac cycle, with the position of each valve. What do systolic and diastolic mean?

B3.2.17–18 Root pressure and phloem

How root pressure is generated, and when it matters. Label a sieve tube and companion cell and list their adaptations.

Before you finish

Tick the ones you can explain without notes. Circle anything to ask about.

- ☐ Tissue fluid
- ☐ Plasma vs tissue fluid
- ☐ Lymph
- ☐ Single and double circulation
- ☐ Heart structures
- ☐ SA and AV nodes
- ☐ Cardiac cycle
- ☐ Blood pressure
- ☐ Root pressure
- ☐ Phloem