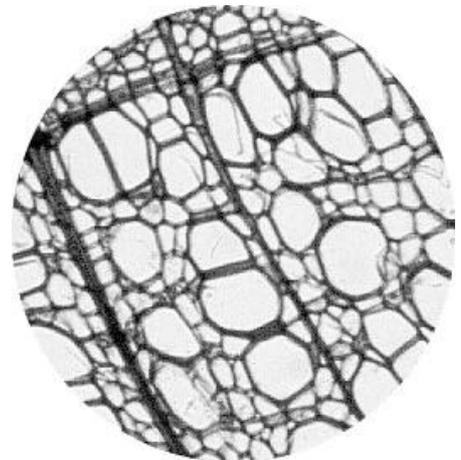
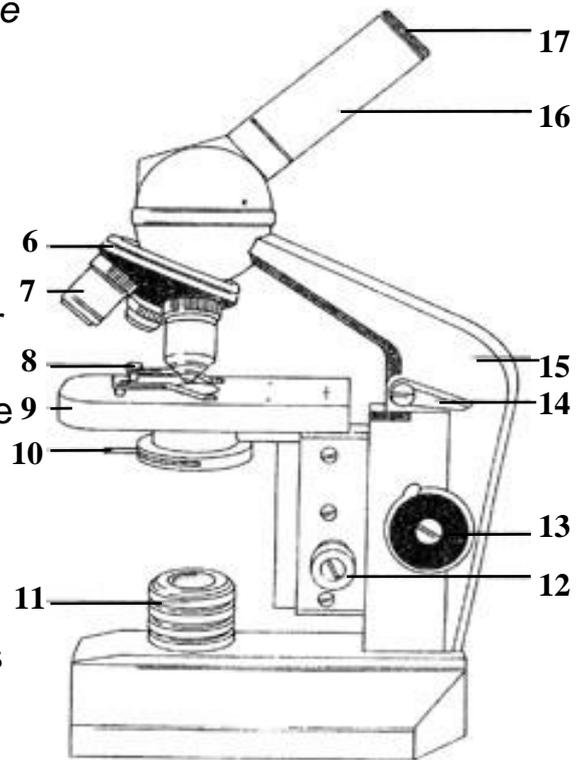


PRETEST BIOLOGY CHAPTER 1

There is a short wordlist at the bottom of the next page. Write down your answers on your answer sheet.

1. Cells are the basic units of life.
 - a. Draw an onion cell and name the different parts.
 - b. List three parts of plant cells you never will see looking at animal cells.
 - c. Write down the functions of these three cell parts.
2. All cells have membranes.
 - a. Explain the functions of the cell membrane.
 - b. Explain why you can't see membranes with the microscope.
3. You have worked with the microscope
 - a. What's the function of nr 12?
 - b. In the picture below the microscope you see a micro photo of xylem cells (magnification 10x40; diameter of field of view 0,40 mm). Determine the size of a large cell in the middle of the picture and explain your answer.
4. When something is *not alive*, it can be dead or lifeless.
 - a. List two reasons why a computer is not alive.
 - b. List two (really different) other things in the classroom that are lifeless.
 - c. Explain why they are lifeless.
5. We can study biology at different levels: from molecules to ecosystems. Between these levels you will find the levels of cells up to organisms.
 - a. Cells are grouped into:
 - b. Write down the levels between cells and organism in the right order.



6. Our body has a number of organ systems.
- What does the digestive system do?
 - Explain that the urinary system is opposite to the digestive system.
 - Explain why the muscular system has to work together with the nervous and skeletal systems.
 - Explain how the circulatory system works together with the respiratory system.
7. Organs often are arranged into organ systems
- Explain why.
 - Which organs are involved in the support of your body?
 - Name one other function of these organs.
 - Name two organ systems that are spread through the whole of your body.
8. In hospital scanners are used to make cross-sections of the body. On such a cross section you always see a limited number of organs and tissues.
- Give a short definition of an *organ*.
 - Which of the following organs might be visible on a cross-section scan when you can't find any part of the breathing system on the scan: *heart / liver / brains / arm / kidneys / intestines / bladder*?

A short wordlist to help you:

to absorb	opnemen	limbs	ledematen
to arrange	rangschikken	limited to	beperkt
bladder to	blaas	list	opsommen
compare	vergelijken	magnification	vergroting
condition	voorwaarde	muscle	spier
cross-	dwarsdoorsnede	oesophagus	slokdarm
section to	bepalen	to omit	weglaten ui
determine	voorbeeld	onion	tegengesteld
example	toenemend	opposite	rose
increasing	darmen	pink spread	verspreid
intestines	betrokken nier	typical	typerend
involved	niveau	tissue	weefsel
kidney level			
