

PRETEST BIOLOGY CHAPTER 1 *answers*

1. *Cells are the basic units of life.*
 - a. Cell wall, nucleus, cytoplasm, vacuole
 - b. Cell wall, a chloroplast, a permanent vacuole
 - c. Support, photosynthesis, storage of waste / colour / support
2. *All cells have membranes.*
 - a. Holds substances in the cell and acts as gatekeeper to control chemicals
 - b. They are too thin
3. *You have worked with the microscope.*
 - a. Fine adjustment
 - b. Fits in about 6 times, so $0,40 \text{ mm} / 6 = \text{about } 0,065 \text{ mm}$
4. *When something is not alive, it can be dead or lifeless.*
 - a. Cannot reproduce, cannot grow
 - b. Stone wall, glass window
 - c. They never lived.
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. Tissues
 - b. (Cells >) tissue > organ > organ system (> organism)
6. *Our body has a number of organ systems.*
 - a. Takes in, breaks down and absorbs the food
 - b. Excretes while digestive system absorbs
 - c. Muscles move the bones and need stimulation and regulation of the nervous system
 - d. Lungs bring in oxygen and excrete carbondioxide; the blood transports both through the body
7. *Organs often are arranged into organ systems*
 - a. So that several associated functions are co-ordinated
 - b. Bones and muscles
 - c. Movement
 - d. Circulation system / skeletal system (nervous system)
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.*
 - a. A part of your body with a specific function
 - b. *liver / brains / arm / kidneys / intestines / bladder*