

M2 Science Semester 1 Midterm Exam Review

Part 1: Living things (Science Textbook pages 2 - 4)

1. What is a living thing?

2. Name 5 characteristics of living things.

Living Things	
1.	
2.	
3.	
4.	
5.	

3. The basic structural and functional unit of all living things is referred to as

Part 2: Cell Theory (Science Textbook pages 5 - 6)

4. What are the three main parts of cell theory?

1: _____

2: _____

3: _____

5. Name three things that cells do in your body.

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Part 3: Looking Inside Cells (Science Textbook page 12 - 17)

6. Label the parts of the animal cell below:

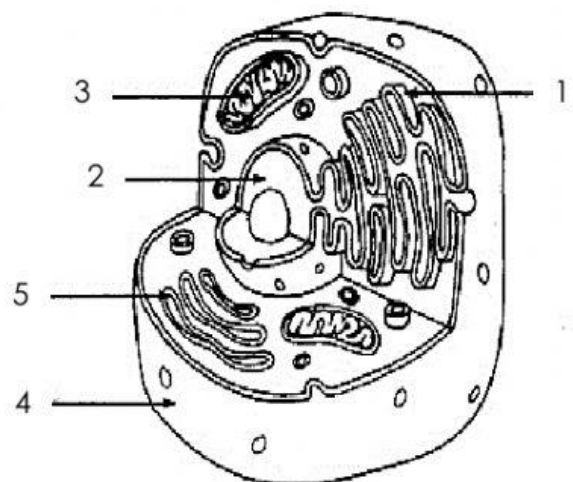
1. _____

2. _____

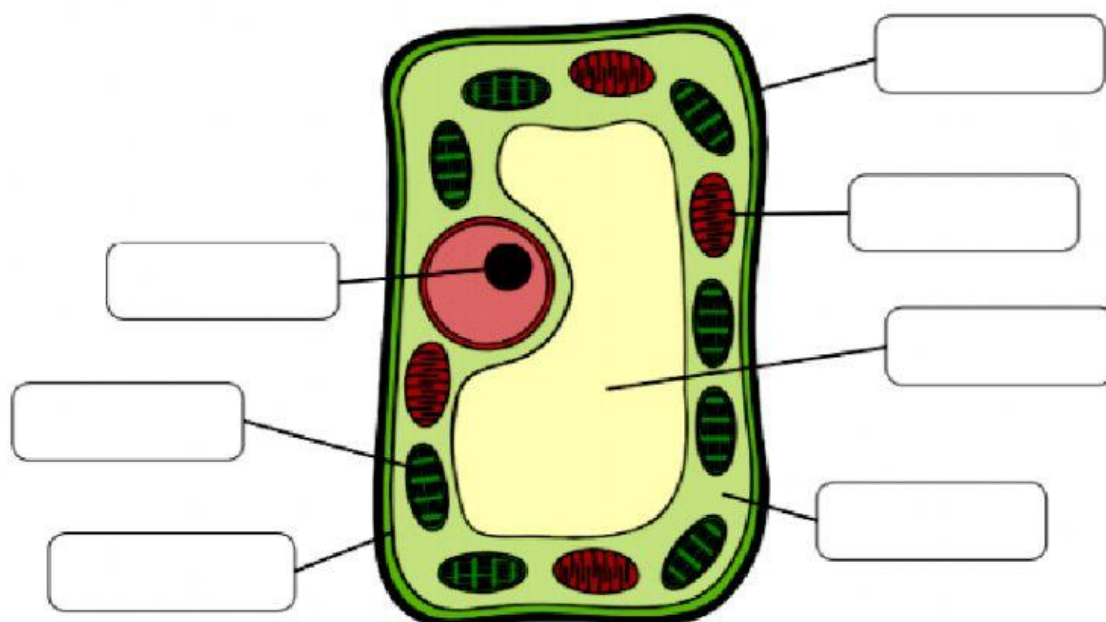
3. _____

4. _____

5. _____



7. a. Label the parts of the plant cell.



b. Name two differences between plant cells and animal cells.

1. _____

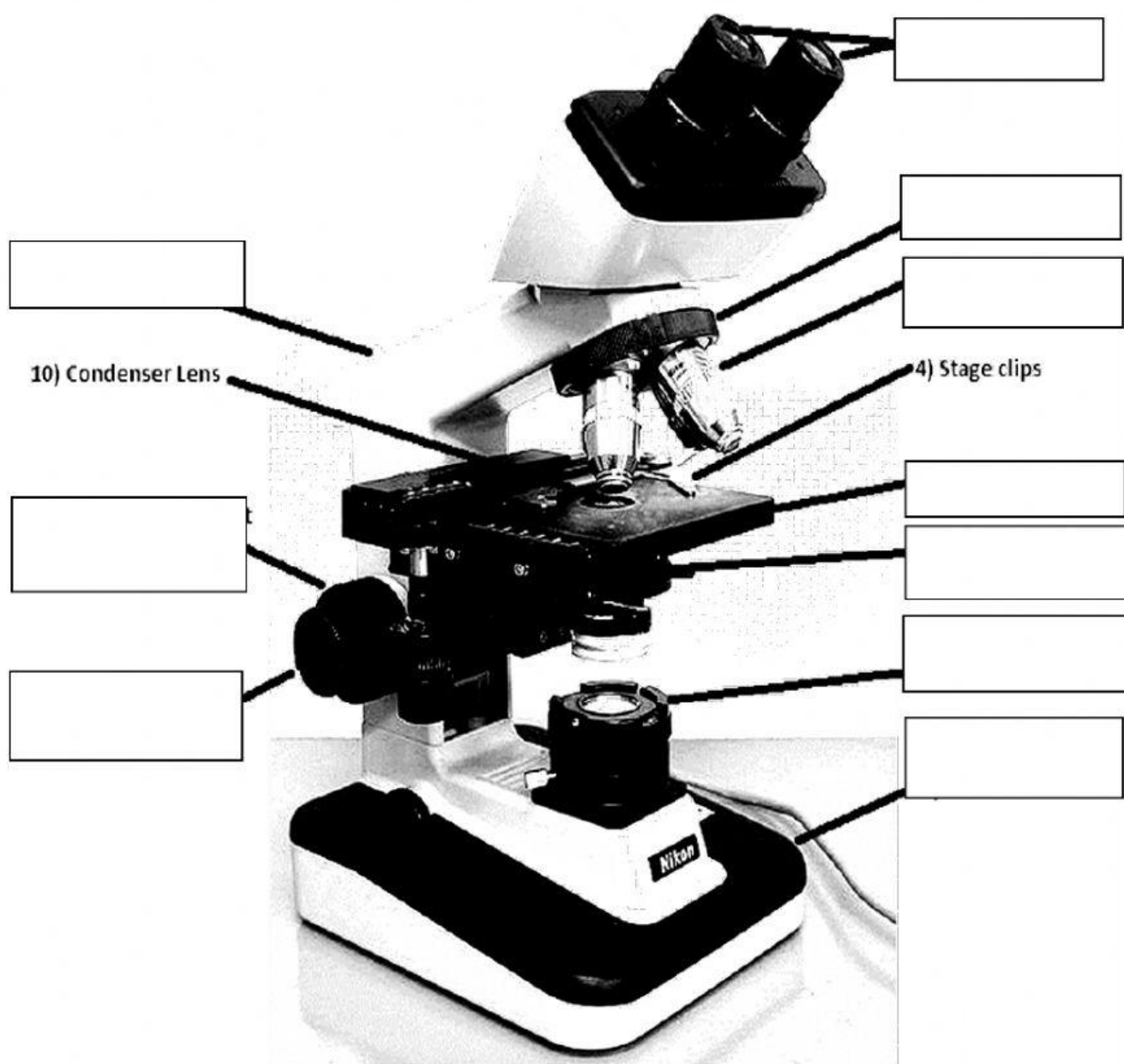
2. _____

8. Match the part of the cell on the left with its function on the right.

1. Nucleus ____	a. Powerhouse of the cell
2. Mitochondria ____	b. Digestion centre
3. Cell Wall ____	c. Where proteins are made
4. Ribosomes ____	d. Controls entry into and out of the cell
5. Endoplasmic reticulum ____	e. The centre of the cell that controls all activity
6. Lysosome ____	f. Stores and releases chemicals
7. Golgi Body (apparatus) ____	g. Shapes and supports a plant cell
8. Cell membrane ____	h. Surface for chemical activity

Part 4: The Microscope (Science Textbook pages 7 - 11)

9. Label the parts of the microscope!! Also study about the first observation of cells.



10. What was the name of the man who observed scrapings from mouth through a microscope and saw little organisms called animalcules?

Part 5: The cell in its Environment (Science Textbook pages 18 - 19)

11. What is diffusion?

12. What is osmosis?

13. Draw a picture of water exhibiting osmosis in a cell.

1.	2.
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14. What does passive transport mean?

Part 6: Unicellular Organisms (Science Textbook pages 22 - 27)

15. Why do we have specialised cells? Give an example.

16. What are eukaryotes? Give an example.

17. What are prokaryotes? Give an example.

18. Name three types of microorganism.

- a. _____
- b. _____
- c. _____

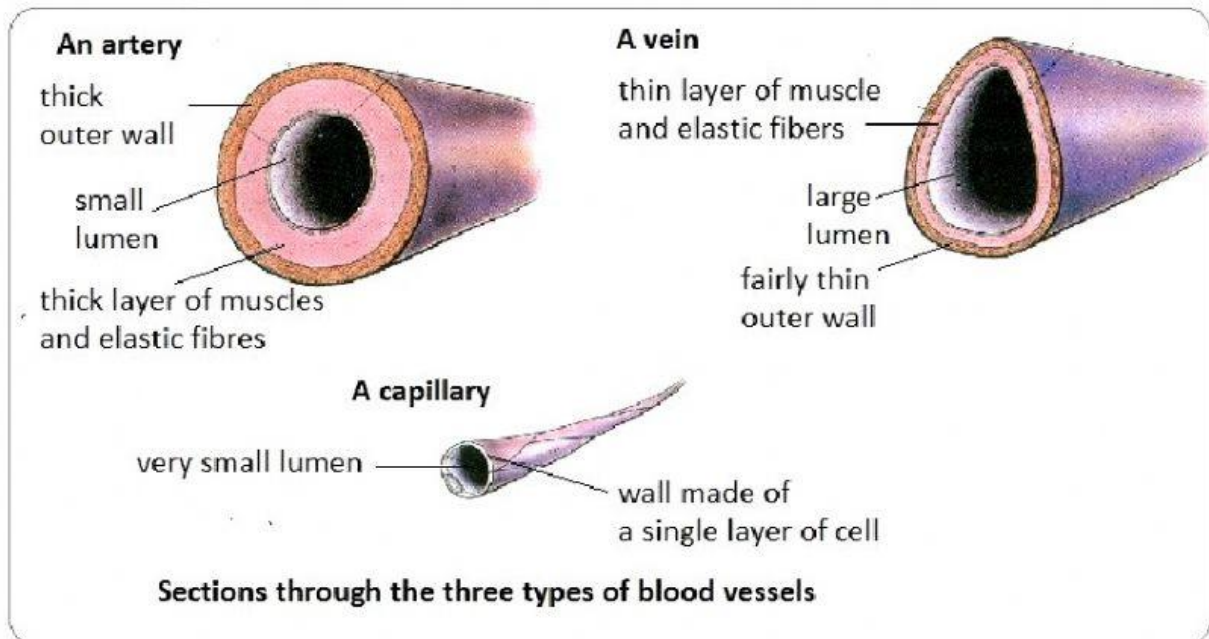
Part 7: The Circulatory System (Science Textbook page 28 - 39)

19. What are the main functions of the circulatory system?

- a. _____
- b. _____
- c. _____
- d. _____

Part 8: Blood Vessel (Science Textbook page 37)

Study the structure and the function of each blood vessel type.



Match the blood vessel to its function.

1. capillary _____

2. vein _____

3. artery _____

A. carry blood from the heart toward body organs, thick cell wall

B. link arterioles to venules, single cell wall

C. carry blood towards the heart, thin cell wall

The human heart is made up of four chambers. Write down the name of these four chambers, the name of the largest artery that carries blood from the heart and the name of the artery that carries blood to the lungs.
