

Welcome to Shivam's SI Session for BIOL 319! Today's worksheet topic: Musculoskeletal!

Work in your assigned groups and collect responses as a collaborative team. Be prepared to have someone present answers to the class!

Questions:

1. What are the primary joints affected in rheumatoid arthritis, and what type of disorder is it?
2. How does osteoarthritis differ from rheumatoid arthritis in terms of cartilage and bone structure?
3. What is the cause of gout arthritis, and where does it most commonly manifest?
4. What characterizes a compound fracture, and why does it present a heightened risk?

5. Describe a comminuted fracture and explain why it may require complex treatment.

6. Define a transverse fracture and its orientation relative to the medullary cavity.

7. What is a greenstick fracture, and why is it more common in children?

8. Describe the role of dendritic cells in the immune response.

9. What is an autoimmune disorder, how does it affect the immune system?

10. Define fascia and its function within the muscular system.

11. What do the roots "sarcos" and "myo" mean?

12. Differentiate between Type 1 and Type 2B skeletal muscle fibers and

give an example of athletes who typically have each type.

13. Explain the mnemonic "FLAT PEG" and what it represents.

14. What is an osteophyte, and where is it commonly found?

15. Describe the difference between anterior and posterior pituitary

hormone releases, specifically referencing ADH.

Once completed with this worksheet, please let me know if you need any clarifications! We will discuss the answers to each question shortly.

Note: If you are unable to attend this SI Session in person for **Monday 3-24**, email me a completed copy of this worksheet (with a valid reason for absence) and I can provide you with the worksheet answer key password!