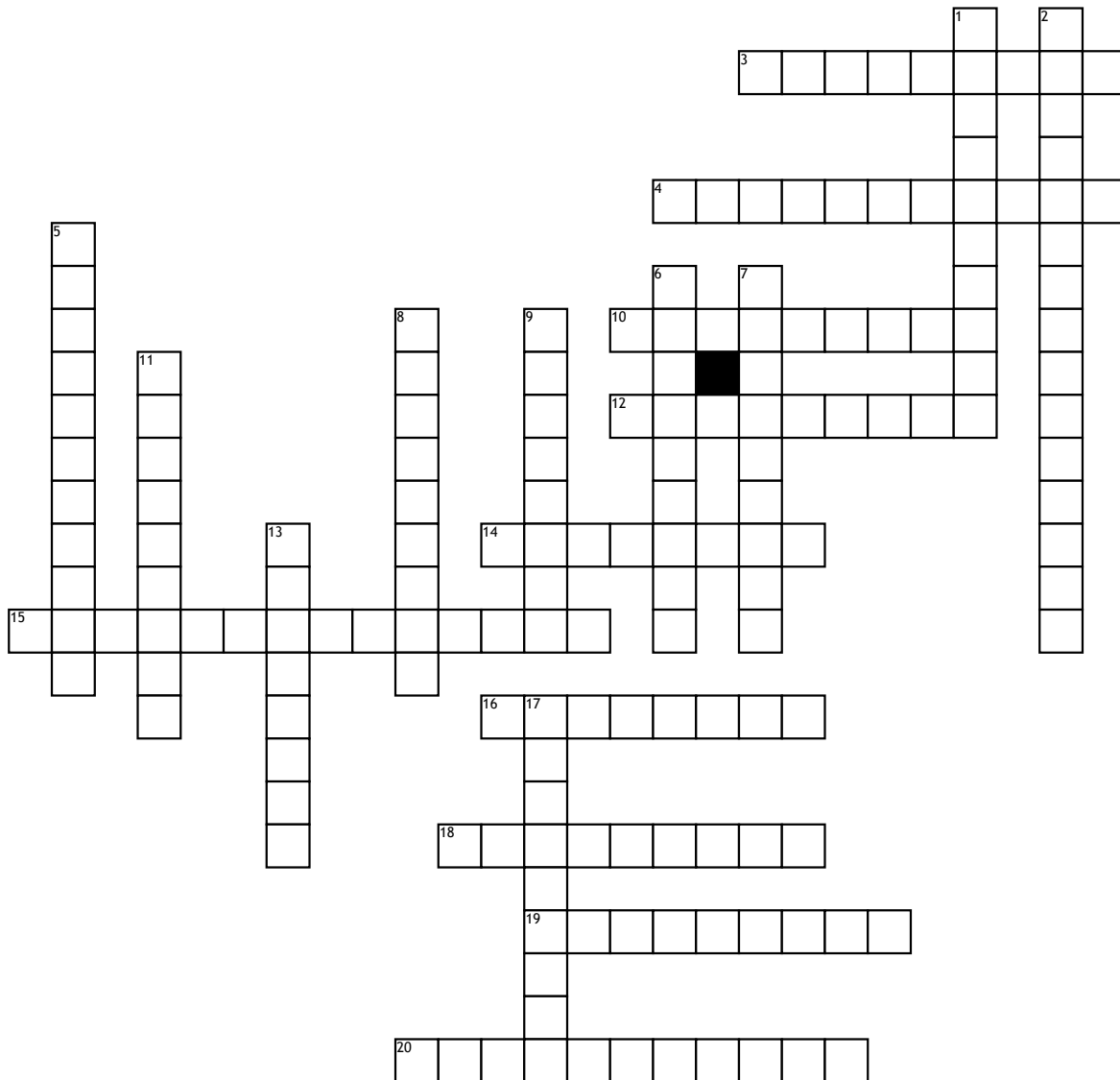


Hemodynamics_Fundamentals of Fluid Mechanics



Across

- 3. Change in biological behavior of some cells such as _____ in response to stress may result in thrombus formation
- 4. In a flow has periodicity, but lacks a net forward or reverse output, the flow is said to be?
- 10. Simplification of the Navier Stokes equations yields the expression commonly known as?
- 12. Characterization of pulsatility in blood flow is best represented by the _____ parameter
- 14. When considering fluid flow, it is said to be _____ if the viscosity of the fluid is negligible
- 15. Flow is said to be _____ once the velocity profile becomes constant

- 16. _____ number is the ratio of inertial to viscous forces in a fluid.
 - 18. Local pathophysiological vascular dilations are known as?
 - 19. When a fluid encounters a stationary object in its flow field, the boundary layer _____
 - 20. Vasoactive compounds secreted by cells due to stress often result in vessel _____
- Down**
- 1. pressure originates from the left ventricle travels out as a wave due to the _____ of the arteries
 - 2. High levels of shear is present at _____ lesions and artificial heart valves
 - 5. The _____ of vessel walls may be damaged in the presence of excessively high levels of shear stress?

- 6. Damage of RBCs, particularly due to stress is known as _____
- 7. The amount of turbulence present in a flow field is quantified by the turbulence _____
- 8. Flow that exhibits periodic behavior and has a net directional motion over the cycle is said to be?
- 9. The velocity profile of a fluid as it enters a tube continues to change over the distance of its _____ length
- 11. Laminar flow is characterized by a _____ boundary layer
- 13. A _____ is characterized by the reduction in the lumen of a vessel
- 17. Turbulent flow is undesirable in blood circulation because of _____ load on the heart