M16 Concept Question 1

Which of the following quantities/properties would you expect to be most important in determining the "ideal" (maximum achievable) strength of a material?

1. The maximum force that can be carried by the interatomic bonds
2. The stiffness of the interatomic bonds
3. The melting temperature of the interatomic bonds
4. The density of the material
5. The crystal structure/atomic packing
6. Some other answer
7. I do not know, I do not understand