

(Properties of ionic, covalent, and metallic substances)

Q1. (2019)

- wood is the least dense so lightest to use
- aluminium is the most dense so will make the racket too heavy
- carbon nanotube is the strongest so least likely to break
- wood / aluminium are too weak so the racket will break more easily
- carbon nanotube is the stiffest so least likely to bend out of shape
- wood / aluminium are not very stiff so could bend out of shape
- justified conclusion

Q2. (2021)

giant structure

(with) strong (electrostatic)
forces of attraction between
(oppositely charged) ions

(so) large amounts of energy
are needed to break the bonds /
forces