L4.2 Quiz
Principles of Electronic Nanobiosensors
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Answer the five questions below by choosing the one, best answer.

1) In a hexagonal lattice, the fraction of the surface (approximately) unoccupied is
   a) 10%
   b) 22%
   c) 25%
   a) 46%

2) The fraction of space unoccupied when molecules arrive randomly on a surface is
   a) Close to 10%
   b) Slightly less than 20%.
   c) Approximately 25%
   d) Almost 50%

3) A 5-tuplet consists of
   a) A pair of 4-tuplet.
   b) A pair of 3-tuplet.
   c) A pair of 2-tuplets.
   d) None of the above.

4) At saturation, the maximum size of individual voids in a RSA problem is
   a) The size of the molecules itself.
   b) Much larger than the size of the biomolecule.
   c) Much smaller than the size of the biomolecule.
   d) Cannot be determined.

5) At very low concentration, the time-dependence of surface coverage is dictated by
   a) Reaction.
   b) Diffusion.
   c) Flow velocity.
   d) Diffusion and random sequential absorption.

End of quiz. This quiz contains 5 questions.