

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.