

1) All of the following are examples of how virulence factors facilitate establishment of disease by a pathogen EXCEPT:

- a) gaining entry into the host.
- b) evade or overcome host defenses.
- c) obtain nutrients from the host.
- d) antibiotic resistance.
- e) lyse host cells for nutrients.

Answer: d

2) Which of these virulence factors is NOT possessed by the pathogen *Neisseria gonorrhoeae*?

- a) Fimbriae for attachment.
- b) Secretory IgA protease.
- c) Production of urease.
- d) Endotoxin.
- e) The ability to change surface pilin antigens.

Answer: c

3) Select the example of a virulence factor that does not directly cause damage to host cells but elicits a strong, damaging inflammatory host response.

- a) immunoglobulin protease
- b) endotoxin
- c) cytotoxin
- d) fimbriae
- e) urease

Answer: b

4) For most pathogenic bacteria, what is the first step it takes to facilitate entry into its host?

- a) attachment
- b) toxin production
- c) protease production
- d) sequestering iron
- e) lysis of the host cell

Answer: a

5) *Staphylococcus aureus* produces a fibronectin-binding protein as a virulence factor to aid in

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