Chapter 22 practice questions

1. *Staphylococcus aureus* causes several different diseases in humans ranging in severity from minor skin infections humans ranging in severity from minor skin infections to potentially deadly systemic disease. What factors are most important in determining whether *S. aureus* will cause a relatively mild disease like hair follicle infections to toxic shock syndrome?

a. Whether or not the patient has encountered the bacterium in the past

b. The bacterium’s specific virulence factors

c. The route by which the bacterium enters the body

d.The source of the bacterium (ie. the reservoir from which the bacterium was obtained)

2. Jack and his family went camping for May long weekend. After a hike, everyone was checked over for woodticks and several of them were removed from Jacks sons clothing. A few days after arriving home, a bullseye rash developed on the upper arm of his son. Jack assumes that maybe a woodtick or something has bitten his son, causing the rash, so he takes his son immediately to the doctor. With what you know about vector born diseases, which pathogen usually causes a bullseye rash?

a. *Listeria monocytogenes*

b. *Streptococcus pyogenes*

c. *Borrelia burgdorferi*

d. Propionibacterium acnes

3. Paul has been feeling sluggish for days, and has developed painful lesions on his side. He pays a visit to the doctor and he is diagnosed with Shingles. What virus would he have had to contracted as a child to reactivate as Shingles now in his late 40s?

a. Rubeola

b. Rubella

c. Papillomavirus

d. Varicella-Zoster virus

4. True or False. Rubeola causes a more serious disease than Rubella.

a. True

b. False

5. Prolonged antibiotic use to treat Strep throat can result in “thrush”, an infection of the mouth caused by a depletion of beneficial oral microbiota that are killed by the antibiotic. Which organism takes advantage of the absent microbiota and causes thrush?

a. Candida species

b. Streptococcus species

c. Treponema species

d. Plasmodium species

6. True or False. Ringworm is a ring shaped rash that develops on the skin that is caused by a fungal infection.