ELSEVIER Interactive Questions

Question 1:

According to the Center for Disease Control (CDC), catheter-associated urinary tract infections (CAUTIs) are one of the top health-care associated infections that the U.S. is actively trying to eliminate.
O2
● 4
Explanation:
According to the CDC's National State and Healthcare-Associated Infections progress report, CAUTIs are one of the top 4 health-care associated infections that the U.S. is focusing on eliminating.
Reference:
http://www.cdc.gov/HAI/pdfs/progress-report/hai-progress-report.pdf
O6
O10
Question 2:
What is the name given to the layers of cells that line the lumen of the bladder?
● urothelium
Explanation:
In general, there are three layers of cells that line the lumen of the bladder: basal, intermediate, and umbrella. Collectively, these cells are known as the urothelium.
Ocalculi

Onephrothelium
Ourinary stroma
Question 3:
What is one product of urease-mediated urea hydrolysis?
Omethanol
Ohydrogen peroxide
Owater (3 molecules)
ammonia (2 molecules)
Explanation:
Urea hydrolysis via urease produces carbonic acid and 2 molecules of ammonia.
Question 4:
The P. mirabilis HI4320 type strain genome contains different operons that encode chaperone-usher fimbriae.
O7
O10
● 17
Explanation:
HI4320 contains 17 different chaperone-usher fimbriae operons, the most in any single strain of bacteria to date.
Reference:

Pearson M.M., et al., (2008) Complete genome sequence of uropathogenic Proteus mirabilis, a master of both adherence and motility. J Bacteriol 190, 4027-4037

O21