**Question 1**

Cerebrospinal levels adequate for treatment of CNS infections are achieved with:

Select one:

a. Imipenem

b. Gentamicin

c. Cephalothin

d. Cefoxitin

Answer A. Katzung 11th Edition pg 786 “penetrate tissues well, including the CSF”

**Question 2**

Non plasmid mediated resistance to antimicrobial effect occurs primarily with:

Select one:

a. Rifampicin

b. Gentamicin

c. Doxycycline

d. Cefaclor

Answer A. Katzung 11th Edition pg 826 “several possible point mutations in rpoB”

**Question 3**

Regarding isoniazid:

Select one:

a. The drug is excreted in the bile

b. It is less likely to cause resistance to Mycobacterium TB when used alone

c. Addition of isoniazid to a patient on dilantin, is more likely to cause dilantin toxicity

d. Pyridoxine is usually given concurrently to combat resistance

Answer C. Katzung 11th Edition pg 1147 “phenytoin induces drug metabolism”

**Question 4**

Sulphonamides exert their antimicrobial action by:

Select one:

a. Acting as a non functional analogue of PABA

b. Inhibiting protein synthesis by binding to the 30S ribosome

c. Altering permeability of the cell membrane

d. Inhibiting DNA gyrase

Answer A. Katzung 11th Edition pg 815 “structural analog of PABA”

**Question 5**

Trimethoprim exerts its anti-microbial effect by:

Select one:

a. Selective inhibition of the synthesis of purines

b. Increasing the permeability of the cell membrane

c. Inhibition of cell wall synthesis

d. Inhibition of dihydropterate reductase

Answer A. Katzung 11th Edition pg 817 “synthesis of purines”

**Question 6**

Trimethoprim:

Select one:

a. Prevents formation of the active forms of folic acid

b. Is a selective inhibitor to dihydropterate synthetase

c. Is mainly excreted in the bile

d. Is a weak acid

Answer A. Katzung 11th Edition pg 817 “tetrahydrofolic acid”

**Question 7**

Which of the following antibiotics is bacteriostatic?

Select one:

a. Amphoteracin

b. Gentamicin

c. Isoniazid

d. Doxycycline

Answer D. Katzung 11th Edition pg 796 “bacteriostatic”

**Question 8**

Which of the following is NOT true for norfloxacin?

Select one:

a. It is mainly excreted by the kidney

b. It is poorly absorbed from the GIT

c. It inhibits DNA synthesis in susceptible microbes

d. It is effective in salmonella enteritis

Answer B Katzung 11th Edition pg 820 “well absorbed”

**Question 9**

Which of the following is trimethoprim active against?

Select one:

a. Mycoplasma

b. Streptococcus pneumoniae

c. Haemophilus ducreyi

d. Pseudomonas aeruginosa

Answer C. Katzung 11th Edition pg 818 “haemophilus”. Haemophilus ducreyi causes chancroid (STI)

**Question 10**

Which of the following statements regarding anti fungals is INCORRECT?

Select one:

a. Nystatin promotes ergosterol synthesis

b. Griseofulvin may cause hepatitis

c. Ketoconazole inhibits cell membrane synthesis

d. Amphoteracin B binds to ergosterol

Answer A. Katzung 11th Edition pg 836 “binds to ergosterol”