**Question 1**

Beta 2 agonists:

Select one:

a. Decrease airway hyper reactivity

b. Are more effective if administered on a regular basis in chronic stable asthma

c. Relax airway smooth muscle directly

d. May cause hyperkalaemia if given parenterally

Answer C. Katzung 11th Edition pg 344 “cause bronchodilation”

**Question 2**

Disodium cromoglycate:

Select one:

a. Blocks the bronchoconstrictor response to inhaled allergens

b. Should not be prescribed for long term use

c. Causes bronchodilation

d. Predisposes to oral candidiasis

Answer A. Katzung 11th Edition pg 349 “inhibition of early response to antigen challenge”

**Question 3**

Ipratropium bromide is useful in the treatment of asthma because it:

Select one:

a. None of the above

b. Inhibits phosphodiesterase

c. Inhibits the release of mast cell mediators

d. Stimulates beta 2 receptors

Answer A. Katzung 11th Edition pg 347 “inhibit Ach at muscarinic receptors”

**Question 4**

Sodium cromoglycate:

Select one:

a. Prevents antigen-induced release of histamine by mast cells

b. Reverses asthmatic bronchospasm

c. Is well absorbed orally

d. Has no role before exercise

Answer A. Katzung 11th Edition pg 349 “inhibits mast cell degranulation”

**Question 5**

Therapeutic doses of a beta 2 agonist may result in:

Select one:

a. Ventricular arrhythmias

b. Hypoglycaemia

c. Significant tachyphylaxis

d. Hypoxia early in administration

Answer D. Katzung 11th Edition pg 344 “hypoxemia acutely”

**Question 6**

Which is correct regarding methylxanthine drugs?

Select one:

a. They stimulate the enzyme phosphodiesterase

b. They reduce intracellular CAMP levels

c. They are adenosine agonists

d. They have direct positive chronotropic and inotropic effects on the heart

Answer D. Katzung 11th Edition pg 345 “stimulation of cardiac function”

**Question 7**

Which is INCORRECT regarding theophylline?

Select one:

a. IV boluses may cause convulsions or cardiac arrhythmias

b. It is mainly eliminated unchanged in the urine

c. Changes in intermittent dosing results in a new steady state within 1-2 days

d. Oral bioavailability is approximately 96 %

Answer B. Katzung 11th Edition pg 346 “metabolised by the liver”

**Question 8**

Which of the following contributes to the anti-emetic effects of antihistamines?

Select one:

a. All of the above

b. Antimuscarinic effect

c. Histamine H1 blocking effect

d. Sedative effect

Answer A. Katzung 11th Edition pg 275

**Question 9**

Which of the following does NOT affect histamine release from mast cells?

Select one:

a. Theophylline

b. Ipratropium

c. Sodium cromoglycate

d. Beclomethasone

Answer B. Katzung 11th Edition pg 347 “inhibit Ach at muscarinic receptors”

**Question 10**

Which of the following has been shown to both inhibit mediator release from lung tissue and relax respiratory smooth muscle?

Select one:

a. Disodium cromoglycate

b. Corticosteroids

c. Beta agonists

d. Histamine H1 antagonists

Answer C. Katzung 11th Edition pg 344 “cause bronchodilation”