1. Inhibitory post synaptic potentials involve:

Select one:

a. Localised increase in membrane permeability to phosphate

b. Localised increase in membrane permeability to sodium

c. Localised increase in membrane permeability to chloride Correct. Ganong 23rd Edition pg 120

d. Localised decrease in membrane permeability to chloride

2. Noradrenaline:

Select one:

a. Is secreted by the adrenal medulla Correct. Ganong 23rd Edition pg 138

b. Reduces blood pressure

c. Acts at sympathetic NM junctions in skeletal muscle and vascular smooth muscle

d. Is the main neurotransmitter of the parasympathetic nervous system

3. Regarding the autonomic nervous system:

Select one:

a. Is not involved with visceral sensation

b. Noradrenaline is metabolised by pseudo cholinesterase

c. The cholinergic division increases activity of the intestinal musculature and increases gastric secretion Correct. Ganong 23rd Edition pg 264 figure 17-3

d. Has dopamine as the main transmitter

4. Opioid peptides:

Select one:

a. Are mainly found in the brain and gastrointestinal tract Correct. Ganong 23rd Edition pg 144

b. Include morphine as an example

c. Form the opioid receptors in the brain

d. Are not formed from precursors

5. Regarding neuromuscular transmission, which statement is INCORRECT?

Select one:

a. More than one nerve fibre ends on each end-plate in skeletal muscle Yes, this is false. Ganong 23rd Edition pg 123 "only one nerve fibre ends on each end plate"

b. About 10 times as much acetylcholine as is required is released at skeletal muscle neuromuscular junctions

c. Acetylcholine is released by exocytosis

d. Antibodies can develop to calcium channels in nerve endings at neuromuscular junctions

6. Substance P:

Select one:

a. Is a beta II amino acid residue mainly found in the liver

b. Is a carbohydrate

c. Is not involved in the neuroendocrine system

d. Is a polypeptide found in the intestine and nervous tissue Correct. Ganong 19th Edition pg 104

e. Is a lipid

7. Excitatory amino acids in the brain are:

Select one:

a. Glutamate and glycine Correct. Ganong 23rd Edition pg 140, 142

b. GABA and glycine

c. Glycine and aspartate

d. Glutamate and GABA

8. Which of the following is an inhibitory neurotransmitter?

Select one:

a. Acetylcholine

b. Glycine Correct. Ganong 23rd Edition pg 142

c. Glutamate

d. Gallamine

9. The opioid delta receptor is involved in:

Select one:

a. Miosis

b. Analgesia Correct. Ganong 23rd Edition pg 144 table 7-5

c. Dependence

d. Respiratory depression

10. Catechol-O-methyltransferase (COMT) is responsible for the metabolism of:

Select one:

a. Histamine

b. Heparin

c. Tyrosine

d. Noradrenaline Correct. Ganong 23rd Edition pg 139