**Note: When using these study guides for preparation for exams, keep in mind you will not only need to understand the definition of the concepts, but you will also need to apply them to real-life examples.**

Ch. 12  
Know what associative learning is  
Know what sensitization & habituation are  
Understand the following brain structures’ relationships with memory: basal ganglia, cerebellum, temporal lobe, hippocampus, cortex  
Know what neurotransmitters are most implicated in memory  
Know what dementia is  
Know the possible causes of Alzheimer’s

Ch. 9  
Know what homeostasis, motivation & set point are  
What are the responses of endotherms to heat and cold?  
Understand how fevers due to illness affect temperature regulation  
Know how the preoptic area (POA) & posterior hypothalamus regulate temperature  
Know the effects of human core temperature variations  
Know what osmosis is  
Know the difference between osmotic thirst & hypovolemic thirst and the mechanisms of both  
Know the process of the initiation & cessation of drinking  
Understand the research on learned food preferences  
Know the process of digestion  
Understand the relationship between eating & glucose & insulin levels  
Know what diabetes is (Type I & II)  
Know the functions of the lateral & ventromedial hypothalamus  
Know the research on glucose and obesity as compared to those of normal weight  
Know the psychological and biological factors related to eating disorders and their

Ch. 14  
Understand Hans Selye’s General Adaptation Syndrome  
Understand the relationship between stress & the HPA axis  
What activates the hypothalamus in the stress response?  
Know the process of the stress hormones being released  
Understand the physical effects of stress on the body (especially the immune system) and specific examples of stress’s impact on the body and brain  
Understand the effects of hyper and hypocortisol  
What predicts how stress affects us?  
What are some positive ways of coping with stress?
Other material you should know from throughout the quarter
Research methods that are used specifically in Biopsychology (the ones we covered)
What processes make up the biological basis of behavior? (hint: the different processes we’ve covered generally and are in the text)
Understand the major structures and principles underlying sensation and perception (focusing on visual, auditory and somatosensory)