Test Revision

Test 1 Endocrine and Nervous Systems

Endocrine system:

* hypothalamus & pituitary gland (anterior and posterior)
  + ‘master gland’,
* hormones – produced by, target organs, response/effect
* function of hormones
* disruptions of the endocrine system – diabetes, hypo and hyperthyroidism
* hormone action – protein/amine & steroid

Central nervous system:

* protection of the brain – bone, meninges, cerebrospinal fluid
  + structure & function
* structure and function of the brain and spinal cord
  + grey matter/ white matter

Peripheral nervous system:

* organisation of - sympathetic, parasympathetic, somatic…
* afferent & efferent
  + sensory and motor
* structure of the neuron
* action potential – nerve impulse
  + sodium/potassium pump, polarised, depolarised & repolarised
* threshold
  + all or nothing response
* myelinated and unmyelinated
* speed of impulses – Saltatory conduction
* conduction across the synapse
* neurotransmitters
* reflex arc
  + structure, location & function of all parts
  + afferent = dorsal, efferent = ventral
  + direction of impulse

Comparison:

* between endocrine and nervous systems
  + speed, specificity, mode of transport, duration of effects