**Science Targeted Feedback Analysis**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Year 12 Human Biology**

**Endocrine/Nervous System Test**

MCQ: \_\_\_\_\_\_\_\_ /20 Written: \_\_\_\_\_\_ /35 Total: \_\_\_\_\_\_\_\_\_ / 55

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Different receptors detect changes in the internal and external environments, including thermoreceptors, osmoreceptors, chemoreceptors and receptors for touch and pain(SU) | | | Specially structured neurons, including sensory, interneuron and motor neurons (SU) | The reflex arc comprises of specially structured neurons, including sensory, interneuron and motor neurons, to transmit information from the receptor to the effector to respond rapidly to stimuli (SU) | | | Transmission of nerve impulses is via electro-chemical changes that occur at the generation of the impulse, the propagation of the impulse along the nerve fibre, | | The transfer of the impulse across the synapse(SU) | Structure and function of the divisions of the nervous system can be observed and compared at different levels in detecting and responding to the changes in the internal and external environments including: central-peripheral , afferent-efferent, autonomic­-somatic and sympathetic-parasympathetic(SU) | | The parts of the central nervous system, are protected by the meninges and cerebro-spinal fluid (SU) | | The parts of the central nervous system, including the brain (cerebrum, cerebellum, medulla oblongata, hypothalamus, corpus callosum) and spinal cord, have specific roles in the co-ordination of body functions (SU) | Hormones can be lipid-soluble and able to cross cell membranes to bind with and activate intracellular receptors or, water-soluble and able to bind with and activate receptors on cell membranes, and require secondary messengers to affect cell functioning (SU) | The secretions of the pituitary gland are controlled by the hypothalamus through transport of hormones, either via nerve cells or the vascular link between them (SU) | The secretions of the pituitary gland are controlled by the hypothalamus through transport of hormones, either via nerve cells or the vascular link between them (SU) | Hormones secreted from the hypothalamus, pituitary, thyroid, parathyroid, pancreas and adrenal glands are involved in homeostasis by affecting specific target organs | The nervous and endocrine systems work together to co-ordinate functions of all body systems, but differ in terms of:; speed of action, duration of action, nature and transmission of the message and specificity of message | |
| Qu 1 |  | | |  |  | | |  | |  |  | |  | |  |  |  |  |  |  | |
| Qu2 |  | | |  |  | | |  | |  |  | |  | |  |  |  |  |  |  | |
| Qu3 |  | | |  |  | | |  | |  |  | |  | |  |  |  |  |  |  | |
| Qu4 |  | | |  |  | | |  | |  |  | |  | |  |  |  |  |  |  | |
| Qu5 |  | | |  |  | | |  | |  |  | |  | |  |  |  |  |  |  | |
| Qu6 |  | | |  |  | | |  | |  |  | |  | |  |  |  |  |  |  | |
| Qu7 |  | | |  |  | | |  | |  |  | |  | |  |  |  |  |  |  | |
| Qu8 |  | | |  |  | | |  | |  |  | |  | |  |  |  |  |  |  | |
| Qu9 |  | | |  |  | | |  | |  |  | |  | |  |  |  |  |  |  | |
| Qu10 |  | | |  |  | | |  | |  |  | |  | |  |  |  |  |  |  | |
| Qu11 |  | | |  |  | | |  | |  |  | |  | |  |  |  |  |  |  | |
| Qu12 |  | | |  |  | | |  | |  |  | |  | |  |  |  |  |  |  | |
| Qu13 |  | | |  |  | | |  | |  |  | |  | |  |  |  |  |  |  | |
| Qu14 |  | | |  |  | | |  | |  |  | |  | |  |  |  |  |  |  | |
| Qu15 |  | | |  |  | | |  | |  |  | |  | |  |  |  |  |  |  | |
| Qu16 |  | | |  |  | | |  | |  |  | |  | |  |  |  |  |  |  | |
| Qu17 |  | | |  |  | | |  | |  |  | |  | |  |  |  |  |  |  | |
| Qu18 |  | | |  |  | | |  | |  |  | |  | |  |  |  |  |  |  | |
| Qu19 |  | | |  |  | | |  | |  |  | |  | |  |  |  |  |  |  | |
| Qu20 |  | | |  |  | | |  | |  |  | |  | |  |  |  |  |  |  | |
|  | | Transmission of nerve impulses is via electro-chemical changes that occur at the generation of the impulse, the propagation of the impulse along the nerve fibre | The parts of the central nervous system, including the brain (cerebrum, cerebellum, medulla oblongata, hypothalamus, corpus callosum) and spinal cord, have specific roles in the co-ordination of body functions | | | The secretions of the pituitary gland are controlled by the hypothalamus through transport of hormones, either via nerve cells or the vascular link between them (SU) | Hormones secreted from the hypothalamus, pituitary, thyroid, parathyroid, pancreas and adrenal glands are involved in homeostasis by affecting specific target organs (SU) | | Hormones can be lipid-soluble and able to cross cell membranes to bind with and activate intracellular receptors or, water-soluble and able to bind with and activate receptors on cell membranes, and require secondary messengers to affect cell functioning | | | nervous system can be observed and compared at different levels in detecting and responding to the changes in the internal and external environments including: central-peripheral , afferent-efferent, autonomic­-somatic and sympathetic-parasympathetic(SU) | |  | | | | | | |
| Reflection | | | | | | |
| Qu21 | | /7 |  | | |  |  | |  | | |  | |  | | | | | | |
| Qu22 | |  | /7 | | |  |  | |  | | |  | |  | | | | | | |
| Qu23 | |  |  | | | /4 | /6 | |  | | |  | |  | | | | | | |
| Qu24 | |  |  | | |  |  | | /8 | | |  | |  | | | | | | |
| Qu25 | |  |  | | |  |  | |  | | | /12 | |  | | | | | | |