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| **Topic heading** | **Syllabus Ref** | **Idea cluster** | **Question 1** | **Question 2** | **Question 3** | **Question 4** |
| **Homeostasis and response** | **BHo 1** | **Homeostasis** | **What is homeostasis?**  **A When things in the body are kept the same.**  **B When the body maintains optimal conditions for enzyme action and all cell functions.**  **C When the body responds in a similar way to a stimuli**  **D When the body maintains a constant internal environment so that it can stay healthy.** | **Conditions that need to be controlled by the body are:**  **A Blood glucose, body temperature and water levels.**  **B Energy intake and energy output**  **C Blood and water**  **D Heart rate and temperature** | **What is the function of a receptor cell?**  **A To detect changes in the environment**  **B To tell the body how to respond to changes in the environment**  **C To bring about a response to changes in the environment**  **DTo receive and coordinate information.** | **Which of the following is an example of an effector?**  **A The brain**  **B The eye**  **C The adrenal gland**  **D The wrist** |
| **Correct Answer** |  |  | **B** | **A** | **A** | **C** |
| **Homeostasis and response** | **BHo 2** | **The human nervous system** | **Which of the following best describes how the CNS coordinates a response to a stimulus?**   1. **Stimulus🡪 receptor 🡪 co ordinator 🡪 effector 🡪 response** 2. **Receptor 🡪 stimuli 🡪 effector 🡪 response.** 3. **Co ordinator 🡪 stimuli🡪 effector 🡪 response** 4. **Stimulus 🡪 receptor 🡪effector 🡪 coordinator 🡪 response.** | **Which organs make up the Central Nervous System?**  **A Sensory and motor neurones**  **B Spinal cord and thigh muscle**  **C The eye and brain**  **D The brain and spinal cord** | **Why are reflex actions faster than a normal nervous response?**   1. **Because the nerve impulses move faster in a reflex action** 2. **Because nerve impulses do not involve the conscious part of the brain** 3. **Because the response travels through fewer neurones.** 4. **It travels across the synapses quicker** | **How does a nerve impulse move across the synapse?**   1. **It jumps across the gap** 2. **The neurotransmitter diffuses across the gap** 3. **The impulse spreads out.** 4. **The impulse starts again.** |
| **Correct Answer** |  |  | **A** | **D** | **B** | **B** |
| **Homeostasis and response** | **BHo 3** | **Hormonal coordination** | **How is a hormonal response different to a nervous response?**  **A. With hormones the effect is faster.**  **B. With hormones the effect is slower**  **C. A nervous response lasts longer.**  **D. A nervous response takes longer to take effect.** | **What is the role of glands?**  **A To secrete chemicals called hormones**  **B To coordinate a response**  **C To produce an effect to a stimuli**  **D To speed up a response** | **Which of these is known as the master gland?**  **A Pancreas**  **B Thyroid**  **C Pituitary**  **D Ovary** | **Image result for endocrine glands to label**  **Which gland is labelled A?**  **A Ovary**  **B Adrenal**  **C Thyroid**  **D Pituitary** |
| **Correct Answer** |  |  | **B** | **A** | **C** | **D** |
| **Homeostasis and response** | **BHo 4** | **Control of blood glucose** | **Which organ is responsible for the monitoring and control of blood glucose?**  **A Liver**  **B Pancreas**  **C Kidney**  **D Stomach** | **What is the role of insulin in controlling blood glucose?**   1. **It causes glucose to move from the blood into the cells.** 2. **It causes glucose to be produced by the liver.** 3. **It makes the kidneys absorb glucose** 4. **It stops the liver absorbing glucose** | **What is the name of the medical condition where a person does not produce enough insulin?**   1. **Type 2 diabetes** 2. **Pancreatitis** 3. **Type 1 diabetes** 4. **Jaundice** | **What is the treatment for type 2 diabetes?**  **A A carbohydrate controlled diet and exercise.**  **B Antibiotics**  **C Paracetamol**  **D Insulin injections** |
| **Correct Answers** |  |  | **B** | **A** | **C** | **A** |
| **Homeostasis and response** | **BHo 5** | **Hormones in reproduction** | **Which gland is responsible for the production of oestrogen:**  **A Pituitary gland**  **B Adrenal**  **C Ovary**  **D Thyroid** | **What is the role of FSH ( Follicle stimulating hormone) in the menstrual cycle?**  **A Causes maturation of an egg**  **B Stimulates the release of an egg**  **C Maintains the lining of the uterus**  **D Prepares the lining of the uterus for a fertilised egg** | **What is the role of testosterone in reproduction?**  **A it makes a mans voice deeper.**  **B It stimulates sperm production**  **C It makes men grow taller.**  **D It makes men develop facial hair** | **Which hormone inhibits the secretion of FSH?**  **A Oestrogen**  **B Testosterone**  **C LH**  **D Progesterone** |
|  |  |  | **C** | **A** | **B** | **A** |
| **Homeostasis and response** | **BHo 6** | **Hormonal control of fertility** | **Which hormone is present in the contraceptive pill to inhibit the eggs maturing?**  **A FSH**  **B LH**  **C Progesterone**  **D Oestrogen** | **Which hormones may be given to women to increase her fertility?**  **A oestrogen and progesterone**  **B FSH and LH**  **C FSH and Oestrogen**  **D Progesterone and LH** | **What is an advantage of IVF?**  **A The success rate is low**  **B It allows infertile couples to have their own baby.**  **C It is emotionally and physically stressful**  **D it can lead to multiple births** |  |
| **Correct Answers** |  |  | **D** | **B** | **B** |  |
| **Homeostasis and response** | **BHo 7** | **Negative Feedback** | **What affect does adrenaline have on the body?**  **A It boosts the delivery of oxygen and glucose to the brain.**  **B It increases the size of the muscles in the arms.**  **C It plays a role in growth and development**  **D It speeds up chemical reactions in the body.** | **What is the role of thyroxine?**  **A It prepares the body for fight or flight.**  **B It stimulates the basal metabolic rate**  **C It increases heart rate.**  **D It controls the amount of glucose in the blood.** |  |  |
| **Correct Answers** |  |  | **A** | **B** |  |  |
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