

What is homeostasis?

Name three things that are controlled by homeostasis.

1. _____

2. _____

3. _____

Choose the correct word and fill in the blanks.

Homeostasis is a voluntary/involuntary control system that involves _____ or responses.

All control systems include receptors, effectors and coordination centres. Describe what the role of each is, and state the parts of the body that carry out the role.

Receptors _____

Coordination centres _____

Effectors _____

What is the role of the nervous system?

What does CNS stand for?

Which two organs make up the CNS?

What is the function of the nerve cell?

Label the nerve cell diagram with the nucleus, cell body, dendrites, axon, myelin sheath and synapse.



Explain how the nerve cell is adapted to its function.

Put the following terms into a flow diagram to summarise how the nervous system works.

Why are reflexes important?

Label the diagram below with the following key parts of a reflex arc: receptor, spinal cord, motor neurone, sensory neurone, relay neurone, synapse, effector.



Explain how the reflex arc works.

Which hormone is produced by the adrenal gland?

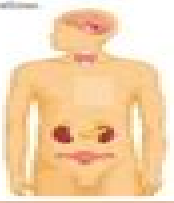
When is it produced?

What are its effects?

Explain how the endocrine system produces a response to a stimulus.

Compare these hormonal effects with the response of the nervous system.

Label the main endocrine glands shown in the diagram below.



Where is the hormone thyroxine produced?

What is its role in the body?

How is the level of thyroxine controlled?

Secondary



Complete the boxes to show how blood glucose levels are controlled.



Control of blood sugar is an example of a _____ loop. What does this mean?

What causes type 1 diabetes?

When does type 1 diabetes usually start?

How is type 1 diabetes treated?

What is the main reproductive hormone in the female?

What is oestrogen?

What is the main reproductive hormone in the male?

What does this hormone do?

What is the role of each of the following hormones in the menstrual cycle?

Follicle stimulating hormone (FSH) _____

Luteinising hormone (LH) _____

Oestrogen _____

Progesterone _____

What causes type 2 diabetes?

What are the risk factors for type 2 diabetes?

How is type 2 diabetes treated?

Label the best stimulating lines on the graph with the names of the hormones they represent.



Use the diagram to explain the stages of the menstrual cycle, make links to the hormone interactions that happen at each stage.

Explain how each method of contraception works.

Oral contraceptives _____

Injectables, implant or skin patch of progestosterone _____

Barrier methods, such as condoms and diaphragms _____

Intrauterine devices _____

Spermicidal agents _____

Abstinence _____

Surgical methods _____

Some women are infertile because they do not ovulate. Explain how artificial hormones can be used to treat infertility.

Describe the process of in vitro fertilisation (IVF).

Give three disadvantages of IVF.

Biology Unit 5 Homeostasis Answers

Larry Bernard Legg



Biology Unit 5 Homeostasis Answers:

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Table of Contents Biology Unit 5 Homeostasis Answers

1. Understanding the eBook Biology Unit 5 Homeostasis Answers
 - The Rise of Digital Reading Biology Unit 5 Homeostasis Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Biology Unit 5 Homeostasis Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Biology Unit 5 Homeostasis Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Biology Unit 5 Homeostasis Answers
 - Personalized Recommendations
 - Biology Unit 5 Homeostasis Answers User Reviews and Ratings
 - Biology Unit 5 Homeostasis Answers and Bestseller Lists
5. Accessing Biology Unit 5 Homeostasis Answers Free and Paid eBooks
 - Biology Unit 5 Homeostasis Answers Public Domain eBooks

- Biology Unit 5 Homeostasis Answers eBook Subscription Services
- Biology Unit 5 Homeostasis Answers Budget-Friendly Options
- 6. Navigating Biology Unit 5 Homeostasis Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Biology Unit 5 Homeostasis Answers Compatibility with Devices
 - Biology Unit 5 Homeostasis Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Biology Unit 5 Homeostasis Answers
 - Highlighting and Note-Taking Biology Unit 5 Homeostasis Answers
 - Interactive Elements Biology Unit 5 Homeostasis Answers
- 8. Staying Engaged with Biology Unit 5 Homeostasis Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Biology Unit 5 Homeostasis Answers
- 9. Balancing eBooks and Physical Books Biology Unit 5 Homeostasis Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Biology Unit 5 Homeostasis Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Biology Unit 5 Homeostasis Answers
 - Setting Reading Goals Biology Unit 5 Homeostasis Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Biology Unit 5 Homeostasis Answers
 - Fact-Checking eBook Content of Biology Unit 5 Homeostasis Answers
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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