

## **Metabolism Quiz PDF**

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What is the primary energy carrier in cells?			
<ul><li>NADH</li><li>ATP</li><li>FADH2</li><li>ADP</li></ul>			
Which metabolic process involves the breakdown of glucose to produce energy?			
<ul><li></li></ul>			
Which hormone is primarily responsible for lowering blood glucose levels?			
<ul><li>GI glucagon</li><li>○ Thyroxine</li><li>○ Insulin</li><li>○ Cortisol</li></ul>			
What factors can influence basal metabolic rate? (Select all that apply)			
☐ Gender ☐ Temperature ☐ Stress levels ☐ Blood type			
Which processes are involved in energy production in cells? (Select all that apply)			
☐ Glycolysis ☐ Krebs cycle			

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☐ Electron Transport Chain
Photosynthesis
Which of the following are considered metabolic disorders? (Select all that apply)
☐ Diabetes
☐ Hyperthyroidism
☐ Asthma
☐ Metabolic syndrome
Explain the role of ATP in cellular metabolism.
Describe how enzymes function as catalysts in metabolic reactions.
What is the main function of enzymes in metabolism?
○ Store energy
○ Act as catalysts
O Provide structural support
○ Transport nutrients
Which organ is primarily responsible for regulating basal metabolic rate?
○ Liver
O Pancreas

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<ul><li>○ Thyroid gland</li><li>○ Adrenal gland</li></ul>			
Which metabolic pathway is responsible for the synthesis of glucose from non-carbohydrate sources?			
<ul><li>○ Glycolysis</li><li>○ Lipolysis</li><li>○ Gluconeogenesis</li><li>○ Krebs cycle</li></ul>			
What is the process called where the body adapts to changes in environment and diet?			
<ul><li>Catabolism</li><li>Anabolism</li><li>Adaptive Thermogenesis</li><li>Homeostasis</li></ul>			
Which of the following factors does NOT influence metabolic rate?			
<ul><li>Age</li><li>Muscle mass</li><li>Eye color</li><li>Activity level</li></ul>			
Which of the following are types of metabolic pathways? (Select all that apply)			
<ul><li>□ Catabolism</li><li>□ Anabolism</li><li>□ Photosynthesis</li><li>□ Glycolysis</li></ul>			
Which hormones play a critical role in regulating metabolism? (Select all that apply)			
☐ Insulin ☐ Gl glucagon ☐ Thyroxine ☐ Melatonin			

Which of the following are components of the citric acid cycle? (Select all that apply)



<ul><li>□ Acetyl-CoA</li><li>□ NADH</li><li>□ Pyruvate</li><li>□ FADH2</li></ul>	
Discuss the impact of exercise on metabolic rate and energy ex	xpenditure.
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How does the body regulate blood glucose levels through horn	nonal control?
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What is the significance of the Krebs cycle in cellular respiration	on?

Explain how genetic factors can influence an individual's metabolism.



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