

MCQ Generation

Prompt : generate me some mcq questions on the topic "Quantum Physics" with 4 options and correct answers

Tool input given by Claude:

```
{  
  
  `MCQ_number`: 5,  
  
  `query_topic`: `Quantum Physics`,  
  
  `extra_information`: `Include questions covering fundamental concepts, quantum mechanics principles, wave-particle duality, quantum states, and quantum applications.`  
  
}
```

Tool output given to Claude:

Question: What is the fundamental principle of wave-particle duality in quantum physics?

Options:

- A. Particles can only exhibit wave-like behavior
- B. Particles can only exhibit particle-like behavior
- C. Particles can exhibit both wave-like and particle-like behavior
- D. Particles can exhibit neither wave-like nor particle-like behavior

Correct Answer: Particles can exhibit both wave-like and particle-like behavior

Explanation: Wave-particle duality is a fundamental concept in quantum physics that suggests that particles, such as electrons, can exhibit both wave-like and particle-like behavior depending on how they are observed.

.
.
.

By this Context generated by Claude LLM :

P generate me some mcq questions on the topic "Quantum Physics" with 4 options and correct answers

I'd be happy to generate multiple-choice questions on Quantum Physics for you. Let me create those for you now.


View result from Topicwise_MCQ_Generator from mcp-server-demo (local) ▾

```
{
  'MCQ_number': 5,
  'query_topic': 'Quantum Physics',
  'extra_information': 'Include questions covering fundamental concepts, quantum mechanics pr
}
```

Here are 5 multiple-choice questions on Quantum Physics with correct answers:





1. What is the fundamental principle of wave-particle duality in quantum physics? A. Particles can only exhibit wave-like behavior B. Particles can only exhibit particle-like behavior C. Particles can exhibit both wave-like and particle-like behavior D. Particles can exhibit neither wave-like nor particle-like behavior Correct Answer: C. Particles can exhibit both wave-like and particle-like behavior
2. What is the name of the principle that states that certain properties of a quantum system, such as energy, can only take on specific discrete values? A. Quantization B. Wave-particle duality C. Superposition D. Entanglement Correct Answer: A. Quantization
3. What is the term for the ability of a quantum system to exist in multiple states simultaneously? A. Superposition B. Entanglement C. Quantization D. Wave-particle duality Correct Answer: A. Superposition
4. What is the term for the phenomenon where two or more particles become correlated in such a way that the state of one particle cannot be described independently of the others? A. Entanglement B. Superposition C. Quantization D. Wave-particle duality Correct Answer: A. Entanglement
5. What is the name of the equation that describes the time-evolution of a quantum system? A. Schrödinger equation B. Heisenberg equation C. Dirac equation D. Klein-Gordon equation Correct Answer: A. Schrödinger equation


Would you like me to generate more questions or explain any of these concepts in more detail?



Claude can make mistakes. Please double-check responses.

Reply to Claude...



Claude 3.7 Sonnet ▾ 

Demonstrates that MCP Server is well connected by Claude and responding very well for context generation.