

Quiz 2 - Quantum Mechanics 1

Deadline: Wednesday 21 December 2022 (by 5pm)

Credits: 20 points

Number of questions: 7

Type of evaluation: Laboratory (LAB)

Instructions:

Write the correct answer to each question and/or briefly explain your answer.

* Required

1. Name: *

2. 1. (3 points) Indicate three properties that wave functions, $\Psi(x,t)$, in Quantum Mechanics have. *

3. 2. (3 points) What does Born's statistical interpretation of the wave function refer to? Briefly explain. *

4. 3. (3 points) What does the uncertainty principle in Quantum Mechanics refer to? Briefly explain. *

5. 4. (2 points) What happens to the wave function of a quantum particle after measurement? *
Briefly explain.

6. 5. (3 points) Mention 3 properties of separable solutions to the 1D Schrödinger equation. *

7. 6. (3 points) Why do we need to introduce wave packets to describe free particles in Quantum Mechanics? *

8. 7. (3 points) Mention three properties of the stationary state solutions to the infinite square ^{*} potential problem.

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