

Quantum Physics: Fundamental Forces

⚠ This is a preview of the draft version of the quiz

Started: Nov 4 at 11:05am

Quiz Instructions

Question 1

1 pts

Which of the following forces can act over any amount of distance?

- electromagnetic force
- strong force
- weak force
- gravitational force

Question 2

1 pts

Which of the following forces play the predominant role when discussing the nuclei of atoms?

- strong force

- weak force
- electromagnetic force
- gravitational

Question 3**1 pts**

Which of the following are fundamental forces in nature? (choose all that apply)

- Gravitational force
- weak nuclear force
- Electromagnetic force
- strong nuclear force

Question 4**1 pts**

Which of the following is the correct order of the strength of the fundamental forces from strongest (left) to weakest (right)?

- Strong force, electromagnetic force, gravitational force, weak force
- Gravitational force, electromagnetic force, strong force, weak force

- Strong force, electromagnetic force, weak force, gravitational force correct
- Gravitational force, strong force, weak force, electromagnetic force

Question 5**1 pts**

Which of the following is the correct order of the range of the fundamental forces from longest (left) to shortest (right)?

- Strong force, gravitational force, electromagnetic force, weak force
- Gravitational force, electromagnetic force, strong force, weak force
- Gravitational force, electromagnetic force, weak force, strong force
- Strong force, electromagnetic force, gravitational force, weak force

Question 6**1 pts**

Which force is responsible for a neutron decaying into a proton?

- electromagnetic force
- gravitational force
- weak force
- strong force

Question 7**1 pts**

Which force holds the nucleus of an atom together?

- weak force
- gravitational force
- strong force
- electromagnetic force

Question 8**1 pts**

Which force is responsible for the interaction of atoms and molecules?

- strong force
- weak force
- electromagnetic force
- gravitational force

Question 9**1 pts**

Which force is responsible for the energy from the fusion reaction of the sun?

- weak force
- strong force
- electromagnetic force
- gravitational force

Question 10**1 pts**

Which force is responsible for the revolution of the moon around the earth?

- electromagnetic force
- strong force
- gravitational force
- weak force

Question 11**1 pts**

When Neils Bohr shook hands with Werner Heisenberg, what kind of force did they exert?

- weak force
- strong force
- gravitational force
- electromagnetic force

Question 12

1 pts

Which of the following forces does a neutron exert on a proton?

- strong force
- gravitational force
- weak force
- electromagnetic force

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