VU QUIZ REPORT

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Subject: PHY101

Quiz Completed: 30/12/2025, 13:49:28
Total Questions: 10
Mathematical Questions: 1
CROPPED Screenshots: 1

Question 1:

According to Coulomb's law, as the distance between two charges increases:

A. The force decreases

B. The force becomes zero

C. The force remains constant

D. The force increases

Selected Answer: A

Question 2:

The number of turns becomes double, but length remain same, then magnetic field in the solenoid become

A. Zero

B. Double

C. Remain same

D. Half

Selected Answer: B

Question 3:

How does a refrigerator differ from a heat engine in terms of its operation?

A. A refrigerator only absorbs heat.

B. A refrigerator operates at a single temperature.

C. A refrigerator is always 100% efficient.

D. A refrigerator is a heat engine working in reverse.

Selected Answer: D

Question 4:

Why do individuals with hypermetropia have difficulty seeing nearby objects clearly?

A. Eyes have a perfect focal length

B. Eyes focus light in front of the retina

C. Eyes focus light behind the retina

D. Eyes can't detect light wavelengths

Selected Answer: C

Question 5:

A certain electromagnetic wave has a frequency of 6×1014 Hz. What is the wavelength of this wave?

A. 600 meters

B. 5×10" 7 meters

C. 300 nanometers

D. 6×10" 7 meters

Selected Answer: B

Question 6:

Electric energy is measured:

A. Kilowatt hour

B. Horsepower

C. Kilowatt

D. Watt

Selected Answer: A

Question 7:

In meta stable state, electrons reside:

A. 10-13 sec

B. 10-5 sec

C. 10-3 sec

D. 10-8 sec

Selected Answer: C

Question 8:

You selected: C

Mathematical question (CROPPED screenshot - top 20% removed)

Selected Answer: C

Question 9:

According to the first law of thermodynamics, applied to a gas, the increase in the internal energy during any process:

A. Equals the heat input minus the work done on the gas

B. Equals the heat input plus the work done on the gas

C. Is independent of the work done on the gas

D. Equals the work done on the gas minus the heat input

Selected Answer: B

Question 10:

The relation for converting the temperature scale from Celsius to Fahrenheit is:

A. TF=95×TC+32" role="presentation">TF=95×TC+32TF=95×TC+32T_F = {9\over5} × T_C +32

B. TF=TC" 273.15" role="presentation">TF=TC" 273.15TF=TC" 273.15T_F =

C. TC=59×(TF" 32)" role="presentation">TC=59×(TF" 32)TC=59×(TF" 32)T_C

D. TC=TF+273.15" role="presentation">TC=TF+273.15TC=TF+273.15T_C = T_F + 273.15

Selected Answer: A

Mathematical Questions Note:

Questions containing mathematical equations and symbols are displayed as CROPPED screenshots (top 20% removed for privacy) to preserve the original formatting. Your selected answers are displayed below each screenshot for easy reference.