

Modern Physics MCQs

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Modern Physics MCQs

1. In photocell cesium is coated with oxidized silver cathode emits electrons for...

- A. visible light
- B. ultraviolet
- C. infrared light
- D. x-rays

Answer - Click Here:

C

2. An inertial frame of reference is frame

- A. in which first law of motion and inertia is valid
- B. inertia is valid
- C. which is not moving with uniform velocity
- D. both a and b

Answer - Click Here:

A

3. Rest mass energy of an electron is

- A. 1.02 MeV (Million Electron Volts)
- B. 0.511 KeV (kilo Electron Volts)
- C. 0.511 MeV
- D. 2.02 MeV

Answer - Click Here:

C

4. According to the theory of relative mass of an object is equal to...

- A. depends on particles
- B. speed of light
- C. volume of the object
- D. area of the object

Answer - Click Here:

B

5. According to the special theory of relativity which one is not an absolute quantity?

- A. Time and mass
- B. mass
- C. height
- D. none of above

Answer - Click Here:

A

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6. The special theory of relativity treats problems involving to which frame of reference

- ...
- A. inertial frame of reference
 - B. non-inertial frame of reference
 - C. non-accelerated frame of reference
 - D. accelerated frame of reference

Answer - Click Here:

A

7. Quantum effects are important only when observing

- A. small objects
- B. very large objects
- C. atomic spectra
- D. atomic size objects

Answer - Click Here:

D

8. A statement saying that energy is radiated or absorbed in discrete packets is given by

- A. plank($1.616229(38) \times 10^{-35}$ meters)
- B. Einstein
- C. Stephen
- D. Wien

Answer - Click Here:

A

9. Phenomena that cannot be understood with the framework of classical physics is

- A. blackbody radiation, atomic spectra
- B. atomic spectra
- C. inertial frame
- D. none of above

Answer - Click Here:

A

10. The behavior of matter on an atomic level cannot be explained in which of the following.

- A. modern physics
- B. classical physics
- C. relativistic mechanics
- D. atomic spectra

Answer - Click Here:

D

11. Max K.E(Kinetic Energy) of photo electrons depend upon light's

- A. intensity
- B. frequency
- C. wavelength
- D. energy

Answer - Click Here:

B

12. Earth can be considered as which type of frame

- A. inertial frame
- B. non-inertial frame
- C. accelerated frame
- D. velocity frame

Answer - Click Here:

A



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