

I. Write "True" if the statement is true and "False" if the statement is false on the space provided.

1. Microscopic particles such as electrons display only particle property while large objects such as a tennis ball display both particle and wave properties.
2. The Twin Paradox predicts the presence of time difference between two twins when one is kept on earth and the other moves to a distant star with speed close to speed of light.
3. The magnitude of speed of light in vacuum may be greater than $3 \times 10^8 \text{ m/s}$ depending on the inertial frame of reference we are measuring in.
4. The blackbody radiation was one of experimental observations whose explanations was able to be well explained using classical mechanics.
5. Light will travel at a faster speed when emitted from a forward moving object.

II. Choose the best answer and write the letter of your choice on the space provided.

6. The collision between a photon and a free electron was first explained by which of the following experiments?
 A. Compton effect
 B. Davisson-Germer experiment
 C. Louis de Broglie
 D. J.J. Thomson
7. An electron traveling at $0.980c$ has a total energy of
 A. 0.245 MeV
 B. 0.511 MeV
 C. 0.756 MeV
 D. 2.55 MeV
8. The correct expression relating the energy E of a particle to its rest mass m_0 , its momentum p , and the speed of light c is?
 A. $E^2 = p^2 c^2 + m_0 c^2$
 B. $E^2 = p^2 c^2 + (m_0 c)^2$
 C. $E^2 = p^2 c + (m_0 c^2)^2$
 D. $E^2 = p^2 c^2 + (m_0 c^2)^2$
9. A particle moves in such a way that its kinetic energy just equals its rest energy. The velocity of this particle is.
 A. $0.866c$
 B. $c/4$
 C. c
 D. $c/2$
10. X-rays of wavelength 10 pm are scattered from a target. The wavelength of the x-rays scattered through 45° is?
 A. 8pm
 B. 10.7pm
 C. 4.2pm
 D. 2.426pm
11. "It is impossible to know both the exact position and exact momentum of an object at the same time." This is the statement of
 A. Pauli exclusion principle
 B. Aufbau principle
 C. Heisenberg's uncertainty principle
 D. momentum conservation principle
12. In quantum mechanical description of an observable, the wavefunction Ψ has no physical interpretation but the square of its absolute magnitude $|\Psi|^2$ represents
 A. mass
 B. energy of the body at that time
 C. momentum of the body at that time
 D. probability of finding the body there at that time

Physics Final Exam Scope 2014

R Pring



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Physics Final Exam Scope 2014 Book Review: Unveiling the Power of Words

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