Modern Physics, Final Exam

Allowed time: 2 hr Max score: 60%

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

- Microscopic particles such as electrons display only particle property while large objects such as a tennis ball display both particle and wave properties.
- 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.
- The magnitude of speed of light in vacuum may be greater than 3×10⁴m/s depending on the inertial frame of reference we are measuring in.
- 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

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 m₀, its momentum p, and the speed of light c is?

 $E^2 = p^2c^2 + m_ic^2$

B. $E^2 = p^2 c^2 + (m_0 c)^2$

 $E^2 = p^2c + (m_0c^2)^2$

 $D_{c} E^{2} = p^{2}c^{2} + (m_{o}c^{2})^{2}$

- 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

 "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
- In quantum mechanical description of an observable, the wavefunction Ψ has no physical interpretation but the square of its absolute magnitude |Ψ|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

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different cultural backgrounds As research findings reveal where the construction of meaning is less equally available to each participant prejudice and exclusiveness are more likely to be assumed impeding individuals intercultural learning The key is to empower those less privileged giving them legitimacy to come to voice in an institutional context on the one hand and protecting their reflections on hegemonic discourse meticulously on the other hand Since the research explores the complexities and subtleties of the communication process that are bound to particular contexts like most ethnographic studies it aims at adding a body of experience and humanistic understanding of cultures rather than testing theories Although the IB Program being studied can hardly be representative of the overall development of international education in China the detailed description of contextual issues of the case and the research procedures could facilitate the readers to vicariously experience these events thus they can make their own decisions about the transferability of the research to their own unique situations Canadian Journal of Native Education ,2003 Who's the New Kid in Chemistry? John D. Butler, 2013-12-12 Who s the New Kid in Chemistry offers an unprecedented look at student engagement and teacher best practices through the eyes of an educational researcher enrolled as a public high school student Over the course of seventy nine consecutive days John D Butler participates in and observes Rhode Island 2013 Teacher of the Year Jessica M Waters s high school chemistry class documenting his experiences as they unfold Who s the New Kid in Chemistry is a compelling example of what can be accomplished when an educational researcher and teacher collaborate in the classroom This work includes a discussion on flexible homework assignments data driven instruction and thirty teacher best practices This book is an invaluable resource for teachers across all content areas masters and doctoral research method classes and future Teachers of the Year Education at a Glance 2023 Sources, Methodologies and Technical Notes OECD, 2023-09-12 This publication provides additional reference material for Education at a Glance 2023 the authoritative source for data on the state of education around the world It provides guidance on the data and methodology used to calculate each indicator It also contains references to the sources and specific notes for each country

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