

Subject: Principles of Physics 2

Course Number: PHYS130502E

Test number: 01 (2 pages).

Duration: 90 minutes.

Notes:

- + Students are allowed to use one A4 paper sheet as a memory aid.
- + Invigilators are NOT allowed to explain anything related to contents of the test.
- + The permeability of free space is $\mu_0=4\pi\times10^{-7}$ T.m/A. The Coulomb constant is $k_e = 9.00\times10^9$ N.m²/C².

Question 1: (0.5 marks)

A circular ring with radius a has total charge q uniformly distributed around it. What is the magnitude of the electric potential V at the center of the ring?

- a. 0 V b. $k_e \frac{q}{a}$ V c. $k_e \frac{q}{a^2}$ V d. $k_e \frac{q}{2\pi a}$ V

Question 2: (0.5 marks)

A uniform magnetic field is directed along the x -axis. Consider a flat, rectangular coil in this magnetic field. Which of the statements about the flux through the coil is correct?

- a. The flux is maximum if the coil is in the xy -plane.
b. The flux is maximum if the coil is xz -plane.
c. The flux is maximum if the coil is yz -plane.
d. The flux has the same nonzero value for all these orientations.

Question 3: (0.5 marks)

Which of the following statements are true regarding electromagnetic waves traveling through a vacuum? More than one statement may be correct.

- a. All waves have the same wavelength.
b. All waves have the same frequency.
c. All waves travel at 3.00×10^8 m/s.
d. The electric and magnetic fields associated with the waves are perpendicular to each other and to the direction of wave propagation.
e. The speed of the waves depends on their frequency.

Question 4: (0.5 marks)

Why is it advantageous to use a large-diameter objective lens in a telescope?

- a. It diffracts the light more effectively than smaller-diameter objective lenses.
b. It increases its resolution.
c. It enables you to see more objects in the field of view.
d. It reflects unwanted wavelengths.
e. It increases its magnification.

Question 5: (1.0 mark)

The ammeter (shown in Figure 3) reads 2.00 A. Find

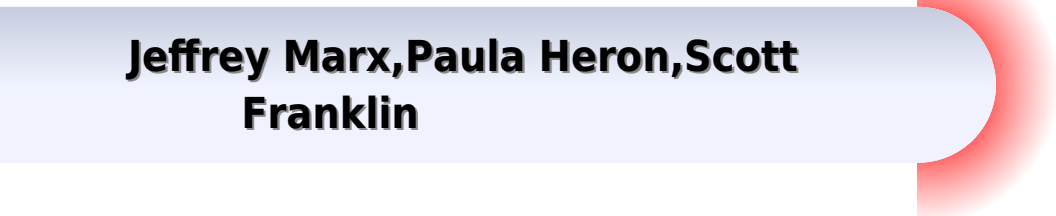
- a. I_1
b. I_2



Figure 3.

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**Jeffrey Marx, Paula Heron, Scott
Franklin**



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Physics Edward C. Gruber, 1963 **AAPT Announcer** American Association of Physics Teachers, 1971 Resources in Education , 1998 **2004 Physics Education Research Conference** Jeffrey Marx, Paula Heron, Scott Franklin, 2005-09-29

The 2004 Physics Education Research PER Conference brought together researchers in how we teach physics and how it is learned Student understanding of concepts the efficacy of different pedagogical techniques and the importance of student attitudes toward physics and knowledge were all discussed These Proceedings capture an important snapshot of the PER community containing an incredibly broad collection of research papers of work in progress **American Journal of Physics** , 2002 **Key Competences in Physics Teaching and Learning** Tomasz Greczyło, Ewa Dębowska, 2016-09-22

This book presents a selection of the best contributions to GIREP EPEC 2015 the Conference of the International Research Group on Physics Teaching GIREP and the European Physical Society's Physics Education Division EPS PED It introduces readers interested in the field to the problem of identifying strategies and tools to improve physics teaching and learning so as to convey Key Competences and help students acquire them The main topic of the conference was Key Competences KC in physics teaching and learning in the form of knowledge skills and attitudes that are fundamental for every member of society Given the role of physics as a field strongly connected not only to digital competence but also to several other Key Competences this conference provided a forum for in depth discussions of related issues **AI Prompts for Productivity** Gabriel Jones, 2025-10-03

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2003 Physics Education Research Conference Jeffrey Marx, Scott Franklin, Karen Cummings, 2004-09-09 Papers from an August 2003 conference report on the latest research in physics education Some specific topics covered include empirical investigations of student understanding the myth of gender neutrality using mapped samples to look for sex differences and students representational coherence of Newton's first and second laws Other topics are

Continuing Education in Science and Engineering, 1978

2005 Physics Education Research Conference Paula Heron, Laura McCullough, Jeffrey Marx, 2006-03-08 The papers included in these proceedings have been peer reviewed The 2005 Physics Education Research Conference covered a broad spectrum of current research directions including student learning of specific topics student attitudes and the effectiveness of various teaching methods The emphasis was on undergraduate instruction The theme of this conference was Connecting Physics Education Research Teacher Education at All Levels K-20

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