

PHYS 921

CHUKA**UNIVERSITY**

UNIVERSITY EXAMINATIONS
FIRST YEAR EXAMINATION FOR THE AWARD OF DEGREE OF DOCTOR OF
PHILOSOPHY IN PHYSICS

PHYS: 921**PHYSICS SEMINARS****STREAMS: PhD****TIME: 3 HOURS****DAY/DATE: WEDNESDAY 23/04/2025****02:30 - 05:30 PM****INSTRUCTIONS:****Attempt any THREE question.****QUESTION ONE 15 MARKS**

- a) Differentiate between copyright and plagiarism in scientific writing. How can researchers ensure compliance with copyright laws? (10 Marks)
- b) Explain the code of conduct for a physicist and its significance in professional practice. (5 Marks)

QUESTION TWO 15 MARKS

- a) Explain the importance of copyright laws in scientific research. (5 Marks)
- b) Describe the key steps involved in conducting a literature review for a physics-related research project. How can one ensure the credibility of sources? (10 Marks)

QUESTION THREE 15 MARKS

- a) Outline the essential components of a research proposal and explain the role of each in structuring a study. (9 Marks)
- b) What is the role of a literature review in research and technology development? (6 Marks)

QUESTION FOUR 15 MARKS

- a) What are the key components of a technical report in medical research? (5 Marks)

b) Why is ethical approval important in research, and how does it protect both researchers and participants? (10 Marks)

QUESTION FIVE 15 MARKS

a) Explain the steps involved in the planning, budgeting, and costing of a medical research project. (6 Marks)

b) Compare different information presentation methods in scientific research. What factors should be considered when choosing a presentation format? (9 Marks)
