



# KISII UNIVERSITY

## UNIVERSITY EXAMINATIONS

**FIRST YEAR EXAMINATION FOR THE AWARD OF THE  
DEGREE OF DOCTOR OF PHILOSOPHY IN SCIENCE IN BIOMEDICAL SCIENCES  
FIRST SEMESTER, 2021/2022  
(FEBRUARY - JUNE, 2022)**

### DPBS 921: NANOBIO TECHNOLOGY

**STREAM: Y1 S1**

**TIME: 3 HOURS**

**DAY:**

**DATE:**

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#### **INSTRUCTIONS:**

- 1. Do not write anything on this question paper.*
- 2. Answer question ONE (Compulsory) and any other TWO questions.*

#### **QUESTION ONE**

Describe the process involved in the identification and documenting a research problem and how this relates with research objectives [20 Marks]

#### **QUESTION TWO**

Discuss the essential elements required in a methodology section for experimental research [20 Marks]

### **QUESTION THREE**

Describe the different research designs. Include the differences in purpose, method, and data management/analysis [20 Marks]

### **QUESTION FOUR**

Discuss the critical analysis of literature review in a research process [20 Marks]