

Mount Kenya University

UNIVERSITY EXAMINATION 2023/2024

SCHOOL OF PURE AND APPLIED SCIENCES
DEPARTMENT OF NATURAL SCIENCES

BACHELOR OF PHARMACY
SCHOOL BASED/DIBEL

UNIT CODE: BCH2207

UNIT TITLE: THEORY OF SPECTROSCOPIC
METHODS

DATE: WED 7TH AUG, 2024 4.00PM MAIN EXAM TIME: 2 HOURS

INSTRUCTIONS: ANSWER QUESTION ONE AND ANY OTHER TWO

QUESTION ONE

- a) Define the following terms: (3 Marks)
- i) Spectroscopy
 - ii) Chromophore
 - iii) Wave length
- b) A certain transition involves an energy change of 4.005×10^{-22} J molecule⁻¹. If there are 1000 molecules in the ground state work out the approximate population of the excited state at the temperature of 290K. (3 Marks)
- c) Explain by a scheme how a prism is able to disperse polychromatic radiation into monochromatic radiation. (5 Marks)
- d) State and explain four factors affecting fluorescence intensity. (4 Marks)
- e) Calculate the number of vibrations in CO₂ (3 Marks)
- f) Explain one way in which a solid sample is prepared in IR spectroscopy (3 Marks)

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