

# JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY SCHOOL OF BIOLOGICAL AND PHYSICAL SCIENCES UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF EDUCATION

(SCIENCE)

# $4^{TH}$ YEAR $2^{ND}$ SEMESTER 2019/20 SPECIAL EXAM

## MAIN REGULAR

**COURSE CODE: SPH 402** 

**COURSE TITLE: STATISTICAL MECHANICS** 

EXAM VENUE: STREAM: (BED SCI)

DATE: EXAM SESSION:

**TIME: 2:00HRS** 

\_\_\_\_\_

### **Instructions:**

- 1. Answer question 1 (Compulsory) in Section A and ANY other 2 questions in Section B.
- 2. Candidates are advised not to write on the question paper.
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room

#### **Useful constants**

Planck's constant =  $6.63 \times 10^{-34}$  J s

Velocity of light in free space =  $3.0 \times 10^8$  m/s

Boltzmann's constant =  $1.38 \times 10^{-23}$  J/K