Kurdistan Regional Government Iraq Ministry of Higher Education & Scientific Research

Salahaddin University –Erbil College of Basic Education Department of General Science



Module : Advanced Physics

Stage: Master

Round: Midterm Exam

Time : 1 Hour Date : 1

Midterm Exam – Second Semester (2023-2024)

Note: Students are allowed to use calculator.

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Q1/ A 10.3 g sample of a reddish-brown metal gave off 71.7 cal of heat as its temperature decreased from 97.5°C to 22.0°C. What is the specific heat of the metal? (5 Marks)

Q2/Which of these sentences are true (T) and which are false (F). Then correct the fals	se statements
	(5 Marks)

- 1- Depending on the zeroth law of thermodynamics the system is not in thermal equilibrium.
- 2- The energy of vibrating atoms in solid is called the kinetic energy.
- 3- The unit of work is (kg. m/sec²).
- 4- Thermometer is an instrument used to measure just objects hotness.
- 5- Extensive Properties can be expressed in thermodynamic systems as follows: $X_{A+B} \neq X_A + X_B$

Q3/ Fill in the blanks with the correct answer: (Each blank holds 1 marks)

5- Kinematics Mechanics refers to ------

Q4/Answer the following:

(4 Marks)

(6 Marks)

- A- Which temperature is hotter: 17 °C or 58 ° F?
- B- Convert the hottest temperature in (A) to Kelvin degrees.

Dr. Wala Dizayee

Best Wishes