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SUBJECT CODE NO: - GOE-8858
FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc (GOE) (NEP) SEM I
Examination November / December 2024
Physics (Everyday Physics)

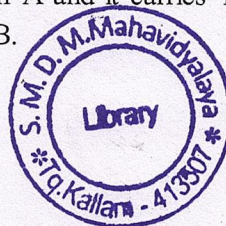
[Time: 1 Hours]

[Max. Marks: 30]

N. B

Please check whether you have got the right question paper.

- 1) Question No.1 is compulsory from section A and it carries 10 marks
- 2) Attempt any four question from Section B.
- 3) Figures to the right indicate full marks.



Section -A

Q.1 Multiple choice question (each carry two marks)

10

- i) In an object moves with uniform acceleration which of the following is true
 - A) Its velocity changes at constant rate
 - B) Its velocity does not change
 - C) The displacement is constant
 - D) The acceleration is zero
- ii) According to Newton's second law of motion force is directly proportional to
 - A) Distance
 - B) Acceleration
 - C) Change in momentum
 - D) Both B and C
- iii) The first law of thermodynamic is also known as _____
 - A) Law of entropy
 - B) Law of Conservation of energy
 - C) Law of Conservation of mass
 - D) Law of heat transfer
- iv) Ohm's law states that the voltage applied through a conductor is directly proportional to the _____
 - A) Current produced in conductor
 - B) Length of Conductor
 - C) Temperature of the Conductor
 - D) Area of the conductor
- v) The acceleration of an object is defined as;
 - A) The rate of Change of speed
 - B) The rate of change of distance
 - C) The rate of Change of velocity
 - D) None of these

Section B

Q.2 Answer the following question (Attempt any Four)

20

- i) What is the expression for the angular momentum of a rotating object?
- ii) What are the main advantages of Solar Power over fossil Fuels?
- iii) What is the main function of a diode in AC/DC rectifier circuit?
- iv) Define a) Speed b) velocity c) Acceleration
- v) State and explain first law of thermodynamics.
- vi) Explain Kirchhoff's current law and its application.