

2022-2023
S.4 PHYSICS
Syllabus on Half Year Examination

12/1/2024 8:30 am -10:00 am

Revision material:

- 1. Textbook**
- 2. Worksheet**
- 3. UT Paper**

Exam coverage

Book 1 Heat & Gas

Ch.1 Temperature and Thermometer

Ch.2 Heat and Internal Energy

**Setup of measuring of specific capacity of material
difference between the experimental value and the standard
value**

Ch.3 Change of State

Latent heat of fusion

Melting point

Ch.4 Heat Transfer

Reduce heat lost by conduction and radiation

Ch.5 Gas Law and Kinetic Theory

Volume and temperature relationship

Assumption of ideal gas in kinetic theory

Explain Gas law by using the kinetic theory

Root-mean-square speed

Book 3A Wave motion I

Ch.1 Reflection

Draw the reflection diagram to show the image formed by plan mirror

Diffuse reflection and regular reflection

Ch.2 Refraction

Draw the Refraction diagram to find out the refractive index of material

Total internal reflection

Exam paper format

MC 30% (20 Questions)

Structural Question 70% (7 Questions)

Duration: 1.5hrs

Stationery: Pen, Pencil, eraser, ruler, calculator.

2023-2024
S.5 PHYSICS
Syllabus on Half Year Examination

Date: 15.01.2024

8:30 am -10:30 am

Revision material:

- 1. Textbook / Notes**
- 2. UT Paper**
- 3. Worksheet**

Exam coverage

Book 1 Heat

Book 2 Mechanics

Book 3A Wave Motion I

Ch.1 Reflection

Ch.2 Refraction

Ch.3 Lens

Book 3B Wave Motion II

Ch.4 Nature of Wave

Ch.5 Properties of wave

Exam paper format (As same as DSE Examination paper 1)

MC (25 Questions)

Structural Question (9 Questions)

Examination format:

Component	Weighting
Multiple choice	30%
Structural Questions	70%

Examination coverage

S4:S5 = 30%: 70%

Duration: 2hrs

Stationery: Pen, Pencil, eraser, ruler, calculator.