2024-2025 S.4 PHYSICS Syllabus on Half Year Examination

Date: 13.01.2025 8:30 am -10:00 am

Revision material:

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

Exam coverage Section 1 Heat & Gas

		MC	LQ
Ch.1 Temperature	Temperature-dependent properties	2	1
and Thermometer	Calibration of Thermometer (in Celius)		
Ch.2 Heat and	Setup of measuring of specific capacity of	2	1
Internal Energy	material		
	difference between the experimental value		
	and the standard valu		
Ch.3 Change of State	Heating Curve and Cooling Curve	2	1
	Latent heat of fusion & vaporization		
	Melting point & boiling point		
	Evaporation		
Ch.4 Heat Transfer	Reduce heat lost by conduction and radiation	2	1
Ch.5 Gas Law and	Volume and temperature relationship	4	1
Kinetic Theory	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	4	11
	image formed by plan mirror		
	Diffuse reflection and regular reflection		
Ch.2 Refraction	Draw the Refraction diagram to find out the	4	1
	refractive index of material		
	Real depth and Apparent depth		
	Total internal reflection		
	Application in Total internal reflection		

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

Examination format:

Component	Weighting	<u>No. of Question</u>	<u>Duration</u>
Multiple choice	30%	20Q	90 mins
Structural Question	ons 70%	7Q	

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

2024-2025 S.5 PHYSICS Syllabus on Half Year Examination

Date: 15.01.2025 8:30 am -10:30 am

Revision material:

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

Exam coverage

	Section	1	Heat	&	Gas
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	MC	SQ	LQ
Ch.1 Temperature and Thermometer	1	1	
Ch.2 Heat and Internal Energy	1		1
Ch.3 Change of State	1		
Ch.4 Heat Transfer	1		
Ch.5 Gas Law and Kinetic Theory	2	1	

Book 3A Wave motion I

Ch.1 Reflection	1		
Ch.2 Refraction	1		
Ch.3 Lens	1	1	

Book 3A Wave motion I

Ch.4 The nature of Wave	1	1	
Ch.5 The properties of Wave	3		
Ch.6 Light	1	1	1
Ch.7 Sound	2		

Book 5 Radioactivity and Nuclear Energy

Ch.1 Radiation and Radioactivity.	3	1	1
Ch.2 Atomic Structure and Radioactive Decay	3	1	
Ch.3 Nuclear Energy	3		

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

MC (25 Qs) Structural Question (SQ 7Qs LQ 3Qs)

Examination format:

Component	Weighting	No. of Question	Duration
Multiple choice	30%	25Q	60 mins
Structural Questi	ons 70%	7Q	

Examination coverage S4:S5 = 30%: 70%

Duration: 2hrs

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