

PHYSICS

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Item	Element of construct	Topics covered	Term	Class
SECTION A: Compulsory				
Item one	LIGHT AND WAVES	➤ Nature of light; reflection of light at plane surfaces	3	S.1
		➤ Reflection of light at curved surfaces	2	S.2
		➤ Refraction, dispersion, and colour	1	S.3
		➤ Lenses and optical instruments	2	S.3
		➤ General wave properties	2	S.3
		➤ Sound waves	2	S.3
Item Two	Atomic and Nuclear Physics	➤ Atomic models	2	S.4
		➤ Nuclear processes	3	S.4
Item Three	Stars, Galaxies (Earth & Space Physics) & Digital Electronics	➤ The solar system	3	S.2
		➤ Stars and galaxies	3	S.3
		➤ Satellites and communication	3	S.3
		➤ Digital electronics	3	S.4
SECTION B:				
	PART 1			
Item four and Five	Mechanics and Heat	➤ Measurements in Physics	1	S.1
		➤ States of matter	2	S.1
		➤ Effects of forces	2	S.1
		➤ Work, energy, and power	1	S.2
		➤ Turning effect of forces, centre of gravity, and stability	2	S.2
		➤ Pressure in solids and fluids	2	S.2
		➤ Mechanical properties of Materials and Hooke's law	2	S.2
		➤ Linear and non-linear motion	1	S.3
		➤ Temperature measurements	2	S.1
		➤ Heat transfer	3	S.1
		➤ Expansion of solids, liquids, and gases	3	S.1
		➤ Heat quantities and vapours	3	S.3

	PART 11			
Item Six and Seven	Magnetism and Electricity	➤ Magnets and magnetic fields	3	S.2
		➤ Electromagnetic effects	1	S.4
		➤ Electrostatics	3	S.2
		➤ Introduction to current electricity	1	S.4
		➤ Voltage, resistance and Ohm's law	1	S.4
		➤ Electric energy distribution and consumption	2	S.4

NOTE:

- Section A will comprise of three compulsory items
- Section B comprises of Part I and Part II each having two questions and a learner answers one question from each part.
- In total five questions must be attempted by the learner.
- The paper is for 2 hours 30 minutes

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Item	Element of Construct	Sections
Item One or Two	Scientific Investigation	➤ Mechanics
		➤ Optics
		➤ Electricity

NOTE:

- The exam duration is 2 hours.
- There are two examination items in this paper.
- Students select one item from the options provided.
- The two items can cover either Mechanics and Electricity, Electricity and Optics or Mechanics and Optics.
- Teachers are required to teach all three sections: Mechanics, Heat, Electricity, and Optics .Avoid focusing solely on specific topics to ensure students are competent across all areas, as they will need this knowledge in real-life applications.