Contents

Special Features	I
Instructions on Accessing Online Interactive Learning Resources	V
Exam Paper Format	vi
Comparison between NEW and OLD syllabuses	vii
New Types of Questions in the Examination	ix
7 Light	2
7.1 Wave nature of light	4
7.2 Reflection of light	9
7.3 Refraction of light	15
7.4 Total internal reflection	21
7.5 Lenses	27
Demonstration	38
Practice	47
8 Sound.	68
8.1 Wave nature of sound	70
8.2 Musical notes and noise	75
Demonstration	81
Practice	89
9 Electricity	100
9.1 Electrostatics	102
9.2 Electric circuits	106
9.3 Domestic electricity	119
Demonstration	130
Practice	143

[Continue to the continue to	
10.1 Magnetic fields	160
10.2 Current-carrying conductors in a magnetic field	167
10.3 Electromagnetic induction	171
10.4 Transformers and the transmission of electrical energy	177
Demonstration	183
Practice	191
11 Atomic Physics	206
11.1 Radiation	208
11.2 Radioactivity	211
11.3 The detection of radiation and radiation safety	217
11.4 Atomic model and nuclear energy	222
Demonstration	229
Practice	236
Index	251
Question Commands	255