

ANSWER KEYSecond YEAR HIGHER SECONDARY EXAMINATION March 20 23PART-~~II~~/III ✓SUBJECT: PHYSICSCODE NO: SY ~~263~~ 563VERSION: Q60 SCORES2 HOURS

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
1		$\frac{1}{4\pi\epsilon_0} \frac{Q}{r^2}$	1	1
2		$P \propto \sin^2 \theta$	1	1
3		$h\nu$	1	1
4		Ultraviolet	1	1
5		Total Internal Reflection	1	1
6		Nucleus	1	1
7		Electrons	1	1
8		Statement or Equation	2	2
9		Any two factors (1+1)	1+1	2
10		Statement or Equation	2	2
11		Correct Figure	2	2
12		Statement	2	2
13		Any four $(\frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2})$	2	2
14		Statement or Equation	2	2

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
15	a b	statement Figure	1 2	3
16	a b	statement Expressions	1 2	3
17	a b	statement $e = -L \frac{dI}{dt}$	2 1	3
18	a b	Polarisation statement Malus' law statement	2 1	3
19	a b	statement Equation (Any correct equation)	2 1	3
20	a b	Statement Equation	2 1	3
21	a b	statement Input wave forms, output wave forms	1 1+1	3
22		Statement Proof - diagram - 1, Derivation - 1 Final Equation - 1	1 3	4
23	a b	Correct diagram Derivation of $\frac{P}{\Phi} = \frac{R}{S}$	2 2	4
24	a b	Any two properties One type with example - 1 score x 3	1 3	4
25		Diagram Derivation	2 2	4

Qn. No	Sub Qns	Answer Key/Value Points	Score	Total Score
26	a b c	Statement $\frac{1}{C} = \frac{1}{C_1} + \frac{1}{C_2}$ ($C = \frac{C_1 C_2}{C_1 + C_2}$), $C = C_1 + C_2$ Solving and final correct equation with unit	1 1+1 2	5
27	a b c	Statement Equation Correct answer	2 2 1	5
28	a b c	step up, step down working of Transformer Any two Energy losses	1 2 2	5
29	a b	Diagram, (correct position) $1 + \frac{D}{f}$, $\frac{D}{f}$	3 2	5