

ANSWER KEY:- CHAPTER – 20

Wave Optics	Level - 1
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	D	B	C	A	C	B	C	A	B	C	B	B	A	C
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
C	B	B	B	D	D	B	D	C	A	D	D	C	D	B
31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
5	10	100	2.5	51	2	450	1.6	24	500	2	6	3	7	30

Wave Optics	Level - 2
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46	47	48	49	50			51	52	53	54	55	56	57
B	1	B	3	[A-q] [B-p] [C-p] [D-p]			ABD	AC	5	B	7	D	AB
58	59	60	61	62	63	64	65						
A	A	AC	3	ABCD	BC	D	[A-r] [B-r] [C-s] [D-p]						

Wave Optics	JEE Main (Archive)
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A	B	C	C	B	D	A	B	D	C	C	C	C	A	C
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
D	B	B	C	C	C	C	B	B	D	C	None	D	B	C
31	32	33	34	35	36	37	38	39	40	41				
D	D	C	C	B	C	9	C	D	A	750				

Wave Optics								JEE Advanced (Archive)						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
D	C	A	A	B	B	A	B	D	C	C	A	D	B	A
16	17	18	19	20		21	22	23	24	25	26	27		28
BD	AC	ABC	AB	ABC		BC	BC	A	C	B	13.9	5892		9.3
29						30						31	32	
(i) $7 \times 10^{-6}\text{m}$		(ii) $1.6, 5.7 \times 10^{-5}$		(i) (4.33nm)		(ii) (3/4)		(iii) (650, 433.33)		3.5		3		
33				34			35	36		37				
[A-p, s] [B-q] [C-t][D-r, s, t]				$2 \times 10^8 \text{ m/s}$, $4000\text{\AA}$			2	$\left(\sqrt{\frac{\mu\epsilon}{\mu_0\epsilon_0}}\right)$		(i) (1mm) (ii) (increase)				
38				39	40	41								
5×10^{14} , 4000				True	False	A								