

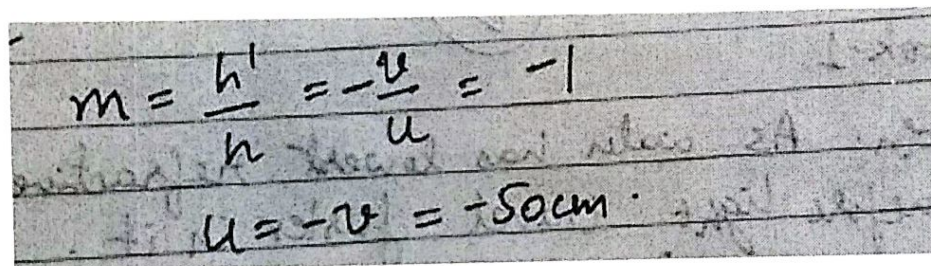
129. A convex lens forms a real and inverted image of a needle at a distance of 50 cm from it. Where is the needle placed in front of the convex lens, if the image is equal to the size of the object ?

- A) + 0.5 m B) - 0.5 m
C) + 0.25 m D) - 0.25 m

Answer Key : C

Final Answer Key : B

Solution :


$$m = \frac{h'}{h} = -\frac{v}{u} = -1$$
$$u = -v = -50\text{cm}$$

Revised Answer Key for PECE 2021 (Set-A)

Question No.	Answer Key	Question No.	Answer Key	Question No.	Answer Key
1	A	51	A	101	D
2	B	52	A	102	A
3	B	53	C	103	C
4	C	54	C	104	C
5	C	55	D	105	B
6	D	56	B	106	C
7	C	57	A	107	D
8	D	58	A	108	D
9	D	59	A	109	A
10	C	60	B	110	D
11	C	61	D	111	C
12	A	62	C	112	C
13	B	63	A	113	C
14	A	64	A	114	D
15	B	65	C	115	C
16	A	66	B	116	D
17	C	67	D	117	B
18	D	68	D	118	B
19	C	69	D	119	A
20	B	70	B	120	C
21	C	71	B	121	C
22	A	72	B	122	B
23	A	73	D	123	A
24	B	74	B	124	A
25	A	75	A	125	B
26	A	76	C	126	B
27	D	77	C	127	B
28	B	78	D	128	A
29	B	79	B	129	B
30	D	80	D	130	C
31	B	81	C	131	B
32	B	82	D	132	A
33	B	83	A	133	A
34	B	84	A	134	A
35	B	85	B	135	C
36	A	86	A	136	C
37	A	87	A	137	D
38	A	88	B	138	D
39	B	89	C	139	B
40	A	90	B	140	D
41	D	91	D	141	C
42	A	92	B	142	A
43	B	93	A	143	C
44	B	94	C	144	D
45	D	95	D	145	B
46	B	96	D	146	A
47	A	97	D	147	B
48	C	98	A	148	C
49	A	99	B	149	A
50	B	100	D	150	C

Revised Answer Key for PECE 2021 (Set-B)

Question No.	Answer Key	Question No.	Answer Key	Question No.	Answer Key
1	A	51	C	101	B
2	D	52	C	102	B
3	B	53	D	103	A
4	B	54	B	104	B
5	D	55	D	105	C
6	A	56	B	106	D
7	C	57	D	107	B
8	D	58	D	108	B
9	C	59	D	109	A
10	B	60	B	110	C
11	B	61	D	111	A
12	A	62	D	112	B
13	C	63	A	113	C
14	A	64	B	114	A
15	B	65	D	115	C
16	B	66	C	116	B
17	B	67	D	117	A
18	B	68	A	118	A
19	B	69	A	119	A
20	B	70	B	120	C
21	D	71	D	121	C
22	A	72	B	122	A
23	B	73	A	123	C
24	B	74	C	124	D
25	D	75	D	125	B
26	D	76	B	126	C
27	C	77	A	127	D
28	D	78	A	128	D
29	D	79	A	129	A
30	C	80	B	130	D
31	A	81	A	131	D
32	B	82	A	132	A
33	B	83	C	133	C
34	C	84	C	134	C
35	C	85	D	135	B
36	C	86	B	136	C
37	A	87	B	137	B
38	A	88	D	138	A
39	B	89	B	139	A
40	A	90	A	140	B
41	C	91	D	141	C
42	A	92	C	142	C
43	B	93	A	143	C
44	A	94	A	144	D
45	B	95	C	145	C
46	A	96	A	146	C
47	A	97	A	147	D
48	A	98	B	148	D
49	B	99	C	149	B
50	A	100	B	150	D

Revised Answer Key for PECE 2021 (Set-C)

Question No.	Answer Key	Question No.	Answer Key	Question No.	Answer Key
1	A	51	A	101	C
2	A	52	A	102	D
3	A	53	B	103	D
4	B	54	C	104	B
5	A	55	B	105	D
6	A	56	A	106	D
7	B	57	A	107	A
8	B	58	C	108	C
9	C	59	C	109	C
10	C	60	D	110	B
11	A	61	B	111	D
12	C	62	D	112	B
13	D	63	D	113	B
14	C	64	D	114	A
15	B	65	B	115	C
16	B	66	D	116	A
17	A	67	D	117	B
18	C	68	A	118	C
19	A	69	B	119	A
20	B	70	D	120	C
21	B	71	C	121	B
22	B	72	D	122	A
23	B	73	A	123	A
24	B	74	A	124	A
25	B	75	B	125	C
26	C	76	B	126	C
27	A	77	B	127	B
28	A	78	D	128	A
29	B	79	B	129	A
30	A	80	A	130	B
31	C	81	D	131	C
32	A	82	C	132	C
33	B	83	A	133	C
34	A	84	A	134	D
35	B	85	C	135	C
36	A	86	C	136	B
37	D	87	C	137	B
38	B	88	D	138	A
39	B	89	B	139	B
40	D	90	D	140	C
41	D	91	B	141	C
42	C	92	A	142	D
43	D	93	A	143	D
44	D	94	A	144	A
45	C	95	B	145	D
46	D	96	D	146	C
47	A	97	B	147	A
48	B	98	A	148	C
49	B	99	C	149	D
50	D	100	D	150	B

Revised Answer Key for PECE 2021 (Set-D)

Question No.	Answer Key	Question No.	Answer Key	Question No.	Answer Key
1	C	51	D	101	C
2	A	52	C	102	C
3	B	53	A	103	C
4	A	54	A	104	D
5	B	55	C	105	C
6	B	56	C	106	B
7	B	57	D	107	A
8	B	58	A	108	A
9	B	59	A	109	A
10	B	60	B	110	C
11	A	61	C	111	B
12	D	62	C	112	B
13	B	63	D	113	A
14	B	64	B	114	B
15	D	65	D	115	C
16	D	66	D	116	C
17	A	67	B	117	A
18	B	68	A	118	C
19	B	69	C	119	D
20	D	70	D	120	B
21	A	71	A	121	D
22	B	72	A	122	A
23	B	73	C	123	C
24	C	74	C	124	C
25	C	75	D	125	B
26	B	76	D	126	A
27	A	77	D	127	B
28	C	78	A	128	C
29	A	79	B	129	A
30	B	80	D	130	C
31	D	81	B	131	C
32	C	82	A	132	D
33	D	83	A	133	D
34	D	84	A	134	A
35	C	85	B	135	D
36	A	86	B	136	D
37	C	87	D	137	B
38	D	88	D	138	B
39	C	89	D	139	A
40	B	90	B	140	C
41	A	91	A	141	C
42	A	92	A	142	D
43	A	93	B	143	D
44	B	94	C	144	B
45	A	95	B	145	D
46	C	96	B	146	C
47	A	97	B	147	B
48	A	98	D	148	A
49	B	99	B	149	A
50	A	100	A	150	B