

**JEST 2019 Answer Key for Physics D Series**

**Part A: 1 Marks MCQ**

S. No	Answer	S. No	Answer	S. No	Answer	S. No	Answer	S. No	Answer
1	C	6	D	11	C	16	C	21	B
2	B	7	B	12	B	17	A	22	A
3	A	8	B	13	B	18	C	23	D
4	D	9	A	14	*	19	B	24	D
5	D	10	D	15	D	20	A	25	C

\* The correct answer is  $Z = \frac{1}{1 - e^{-\frac{\epsilon}{k_B T}}}$ , which is the same as option B with a “minus sign” missing from the exponent. Because of this typographic error, 1 grace mark will be awarded to all the candidates.

**Part B: 3 Marks MCQ**

S. No	Answer	S. No	Answer	S. No	Answer
1	B	6	C	11	D
2	A	7	A	12	A
3	C	8	D	13	A
4	A	9	A	14	A
5	C	10	A	15	C

**Part C: 3 Marks Numerical**

S. No	Answer	S. No	Answer
1	0042	6	2500 (or) 2501
2	0004	7	0008
3	0003	8	0064
4	0055	9	0981
5	*	10	0060 (or) 0120

\*  $\frac{P}{\pi^3}$  should have been  $\frac{P}{\pi^4}$  to get the correct answer in integer form as 0018. Because of this typographic error in the question, 3 grace marks will be awarded to all the candidates.