

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

**Part A: 1 Marks MCQ**

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

\* 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	A	6	B	11	C
2	A	7	D	12	C
3	A	8	A	13	A
4	C	9	A	14	A
5	D	10	C	15	A

**Part C: 3 Marks Numerical**

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

\*  $\frac{P}{\pi^3}$  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.