

TIFR 2018

PART-B

Q.10

10. The minimal polynomial of $\begin{pmatrix} 2 & 1 & 0 & 0 \\ 0 & 2 & 0 & 0 \\ 0 & 0 & 2 & 0 \\ 0 & 0 & 1 & 5 \end{pmatrix}$ is

- (a) $(x - 2)(x - 5)$.
- (b) $(x - 2)^2(x - 5)$.
- (c) $(x - 2)^3(x - 5)$.
- (d) none of the above.