2K5-AS-2

Nov./Dec. 2014 APPLIED MATHEMATICS-I

Time Allowed: 3 Hours Max. Marks: 100

- Note 1. 'Part—A' may be attempted in first 6 pages of Answer-sheet.
 - 2. Part-B' in rest of sheets of Answer-sheet.
 - 3. The question paper consists of two parts, namely, Part—A & Part—B.
 - 4. A candidate has to attempt both parts.
 - 5. Part—A consists of two questions and Part—B consists of 5 questions.
 - 6. Answer may be given in Hindi or English language.

https://diplomate.greybits.in/ Answer any ten questions: 2×10=20

- (1) If matrix $A = \begin{bmatrix} 1 & 2 & 3 \end{bmatrix}$, write AA^T
 - (2) If A is a square matrix of order 3 with |A| = 4, then write the value of |-A|.
 - (3) If $A = \begin{bmatrix} 2 & 3 \\ 5 & -2 \end{bmatrix}$ be such that $A^{-1} = k$ A, then find k.









