

CLASS TEST (SSIT POLYTECHNIC) 2023-2024(winter)

SUBJECT- Engineering Mathematics-I

BRANCH-Civil Engg/ EE Engg/ EE(I&C) Engg/Mech Engg (1stsem)

TIME:1 HOURS

MAXIMUM MARKS:15

1. Answer all the question

2×5 =10

(a) What is the answer of $\sqrt{-2} \times \sqrt{-3}$?

(b) Solve by Cramers rule , $4x-y = 9$, $5x+2y =8$.

(c) If $\frac{1+\tan A}{1-\tan A} = \sqrt{3}$ Find the value of A.

(d) Reduce $2x-3y+7=0$ to the slop from and its intercept on y axis.

(e) Construct a 2×3 matrix having elements given by $a_{ij} = i+j$.

2. Answer all question

5×1=5

(A) Solve the value of $\begin{bmatrix} 1+x & 1 & 1 \\ 1 & 1+x & 1 \\ 1 & 1 & 1+x \end{bmatrix} = 0$

*****ALL THE BEST*****