LATERAL ENTRY- BASE DIPLOMA- ENTRY FOR B TECH- 2ND YEAR

| Q.no | Question | | | |
|------|--|--|-------------------------|--------------|
| 1 | | ex number and b is a epresents a B) F D) Hyperb | Parabola | the equation |
| 2 | If $1, \omega, \omega^2$ are the cube roots of unity, then $\Delta = \begin{vmatrix} 1 & \omega^n & \omega^{2n} \\ \omega^n & \omega^{2n} & 1 \\ \omega^{2n} & 1 & \omega^n \end{vmatrix} =$ | | | |
| | A)1 | B) @ | C) ω^2 | D) 0 |
| 3 | The product of the 4 values of $\left(\frac{1}{2} + i \frac{\sqrt{3}}{2}\right)^{\frac{1}{4}}$ is | | | |
| | 1) -1 | B) 1 | C) i | D) -i |
| 4 | The locus of z satisfying the inequality $\log_{1/3} z+1 >\log_{1/3} z-1 $ is | | | |
| | A) Re (z)>0 | B)Re (z) <0 | C)im (z)>0 | D)Im (z) <0 |
| 5 | The number of ways of arranging 3 copies each of 4 different books in a shelf is | | | |
| | A) 12! (4!)* | B) $\frac{12!}{(4!)^3}$ | C) $\frac{12!}{(3!)^2}$ | D) 12! |

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