

## 2<sup>nd</sup> PDF – BITSAT 4<sup>th</sup> Aug 2021 Memory-Based Questions

- Integral  $\sin x / \sin x - \cos x$
- The number of pi bonds in benzene is
- Integral  $\tan^{-1}(2x/1-x^2)$
- Treatment of alcohol with Ester gives
- What are the direction ratios of lines  $x-y+z-5=0$  and  $x-3y-6=0$ ?
- What is the bond order of superoxide?
- Hybridization of  $[\text{SF}_6]$  &  $[\text{BrF}_5]$ ?
- Solve:  $dy/dx = y/x + \tan y/x$
- $r^2 \cot(A/2)\cot(B/2)\cot(C/2) = k$ , then what is k?
- What is coefficient of  $x^2$  in  $(1-ax-x^2)e^{-x}$
- What is force on block of mass 1.6kg and spring extension 8cm and acceleration due to gravity is 10?
- In bohr model of atom, what is angular momentum from  $n=5$  to  $n=1$ ?