QUES 05:-

Biot-Savart law indicates that the moving electrons (velocity v) produce a magnetic field B such that

- sion-savart law indicates that the moving electrons (velocity v) problem 1.9 B ⊥ v
 3. It obeys inverse cube law
 4. It is along the line joining the electron and point of observation

- Sol. 1) B. L.V. The Biol-Savat law states how the value of the magnetic field at a specific point in space from one short segment of current-carrying conductor depends on each factor that influences the field. The magnitude of \hat{B} is $\hat{B} \times [\eta]$; $\hat{B} \propto \eta$; $\hat{B} \sim \eta$; \hat{B}
- or $B = \frac{1}{N} \frac{1}{N} \frac{1}{N} \frac{1}{N} \frac{1}{N}$. Where \hat{n} is the direction of cross product of \hat{n} and \hat{r} . Or we can say that $\hat{B} \perp$ to both \hat{n} and \hat{r} .

 Where \hat{n} is the direction of \hat{B} which is in the magnitude of position vector from charge to that point at which we have to find the magnitude field and \hat{r} is the angle between r and \hat{r} . Where \hat{n} is the circlican of \hat{B} which is in the direction of cross product of r and \hat{r} . Or we can say that $\hat{B} \perp$ to both and r and \hat{r} .