Q. 2 Biot-Savart law indicates that the moving electrons (velocity v) produce a magnetic field B such that

- (a) B is perpendicular of
- (b) B is parallel to v
- (c) it obeys inverse cube law
- (d) it is along the line joining the electron and point of observation

K Thinking Process Here use of Biot-Savart law play vital role.

Ans. (a) In Biot-Savart's law, magnetic field B||idl×r and idl due to flow of electron is in opposite direction of v and by direction of cross product of two vectors

B⊥v