

**Question 4**

The density of neon will be highest at *(1990 - 1 Mark)*

- (a) S.T.P.                                      (b) 0°C, 2 atm  
(c) 273°C, 1 atm.                              (d) 273°C, 2 atm.

**(b) TIPS/Formulae :**

$$d = \frac{PM}{RT}$$

It means density of gas is directly proportional to pressure and inversely proportional to temperature.

Density of neon will be maximum at highest pressure and lowest temperature.

∴ (b) is correct answer.