SECTION-A		
Answer all the questions by selecting the most suitak	ole a	Ilternative. $(1M \times 20 = 20M)$
arNething Which of the following radiation is not characteristic property		
<ul> <li>A) Gases are highly compressible</li> </ul>		
B) The volume and the shape of gases are fixed		
C) Gases exert pressure equally in all directions		
<ul> <li>D) Gases have much lower density than the sol</li> </ul>		
<ol><li>At constant temperature ,the pressure of a fixed mass of a ga</li></ol>	as is	reduced to one third, the
volume is		
Reduced to one third	,	Remains same
B) Increases by three times		Cannot be predicted.
3) The temperature of gas in a closed container is 27°c. If the te	mpe	erature is raised to 327 c ,the
pressure is	۵۱	Council he coloulated from given
A) double/	U)	Cannot be calculated from given information.
B) reduced to half		Information.
C) reduced to one third 4) Calculate the volume in liters occupied by 8.8g of CO <sub>2</sub> at 31.1	0 2	nd 1 har pressure(R=0.0821 bar
4) Calculate the volume in liters occupied by 8.8g of CO2 at 31.1	. C a	na i bai pressare(
dm <sup>3</sup> mole <sup>-1</sup> K <sup>-1</sup> ) A) 20 B) 2	C)	5.05 D) 5.5
A) 20 B) 2 5) A, B & C are ideal gases and their molecular masses are 2,4 &	28	respectively. The rate of diffusion
of these gases follows the order.		
A) C>B>A	C)	A=B=C
B) A>B>C	D)	Cannot be predicted.
6) The average kinetic energy of the gas molecule is		•
A) Inversely proportional to its absolute temperature		
B) directly proportional to its absolute temperature		
or and to square of its absolute temperature		
c) equal to square of its absolute temperature     D) directly proportional I to square of its absolute temperature	erat	ure
7) A gas will approach ideal behavior at		
A) Low temperature and low pressure	C)	High temperature and low pressure
a) I am tomperature and high pressure		High temperature and high pressur
The oxidation state of boron in sodiumborohydride(NaBH4)is	5	
The oxidation state of poron in socialisation, and		

A) +5 B) -5 ~ C) -3 D) +3 9) Equivalent weight of potassium dichromate (Molecular weight=294.20)in acidic medium is

A) 294.20 B) 58.84 C) 49.034 D) 98.06 10) The mass percentage of carbon in ethyl alcohol(C2H5OH) is A) 52.14% B) 26.08 C) 13.13

D) 34.73

11) The empirical formula of sucrose( $C_{12}H_{22}O_{11}$ ) is

