Roll No _	
CHEMIS	
J.PAPER	-I (Objective Type) GROUP - II Maximum Marks : 17 PAPER CODE = 6488
fil	our possible answers A, B, C and D to each question are given. The choice which you think is correct, that circle in front of that question with Marker or Pen ink in the answer-book. Cutting or filling yo or more circles will result in zero mark in that question.
1-1	Liquids which are practically immiscible:
	(A) $H_2O + C_6H_6$ (B) $H_2O + C_2H_5 - OH$
	(C) $H_2O + HC\ell$ (D) $H_2O + CH_3 - O - CH_3$
2	The velocity of photon is:
5000	(A) Independent of its wavelength (B) Depend on its wavelength
	(C) Depend on its source (D) Depend upon its amplitude
3	The molar volume of CO ₂ is maximum at:
	(A) S.T.P (B) 127 °C and 1 atm. (C) O °C and 2 atm. (D) 273 °C and 2 atm.
4	The type of hybridization in $BeC\ell_2$ is :
	(A) sp^{3} (B) sp^{2} (C) sp (D) dsp^{2}
5	Splitting of spectral lines when atoms are subjected to strong electrical field is called:
	(A) Zeeman effect (B) Stark effect
	(C) Photoelectric effect (D) Compton effect
6	The volume occupied by 16 g of CH_4 at STP is:
	2
7	(A) 2.24 dm ³ (B) 22.414 dm ³ (C) 1.3 dm ³ (D) 1.8 dm ³ In zero order reaction, the rate is independent of:
'	(A) Temperature of reaction (B) Concentration of reactants
	(C) Concentration of products (D) Nature of reactants
8	Hydrogen bonding is maximum in :
0	(A) HI (B) HBr (C) HCl (D) H ₂ O
9	
9	The pH of 10^{-3} mole dm ⁻³ of an aqueous solution of H_2SO_4 is:
	(A) 3.0 (B) 2.7 (C) 2.0 (D) 1.5
10	The largest number of molecules are present in :
	(A) $3.6 \text{ g of } H_2O$ (B) $4.8 \text{ g of } C_2H_5OH$ (C) 2.8 g of CO (D) $5.4 \text{ g of } N_2O_5$
11	The dipole moment of CO_2 is :
	(A) 0.95 D (B) 1.85 D (C) 1.61 D (D) 0 D
12	Which one of the following compound is purified by sublimation:
	(A) Benzoic acid (B) SiO ₂ (C) CS ₂ (D) Nal
13	The molal boiling point constant is the ratio of the elevation in boiling point to:
	(A) Molarity (B) Molality (C) Mole fraction of solute (D) Mole fraction of solvent

The oxidation state of Mn in KMnO₄ is:

(A) +7 (B) +6 (C) +2 (D) +5

The molecules of CO₂ in dry ice form the:

(A) Ionic crystals (B) Covalent crystals

(C) Molecular crystals (D) Metallic crystals

(B) Internal energy

(B) Astronauts

The term that is not state function:

The unit millibar is commonly used by:

(A) Enthalpy

(A) Meteorologists

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17

(C) Work

(D) Volume