Roll No.\_\_\_\_\_to be filled in by the candidate.

## (For all sessions)

Paper Code

## Chemistry (Objective Type)

Time: 20 Minutes

Marks: 17

NOTE: Write answers to the questions on objective answer sheet provided. Four possible answers A,B,C & D to

each question are given. Which answer you consider correct, fill the corresponding circle A,B,C or D given in front of each question with Marker or pen ink on the answer sheet provided.						
1.1. For which system does the equilibrium constant, Kc has units of(concentration)-1?						
	(A) $N_2 + 3H_2 \rightleftharpoons 2N$			$H_2 + I_2 \Longrightarrow 2HI$		
	(c) $2NO_2 \rightleftharpoons N_2O_4$			$2HF \rightleftharpoons H_2 + F_2$		
2.	18g of glucose is dissolve	ed in 90g of water. The relative	lowe	ring of vapour pressure	is equal to:	
	(A) 1/5	<b>(B)</b> 5.1	(C)	1/51	(D) 6.0	
3.	Stronger the oxidizing agent,greater is the:					
		(B) Reduction potential		Redox potential	(D) E.M.F of cell	
4.	If the rate equation of a reaction: 2A+B> Products is, rate=K[A] <sup>2</sup> [B], and A is present in large excess, the					
	order of reaction is:					
	(A) 1	<b>(B)</b> 2	(C)	3	(D) 4	
5.	Isotopes differ in:					
	(A) properties which depend upon mass		(B) arrangement of electrons in orbitals			
	(C) chemical properties			(D) their behaviour in electromagnetic field.		
6.	Number of isotopes of Tin is/are:					
	(A) one	(B) eleven	(C)	fifteen	(D) eighteen	
7.						
	(A) non-volatile or thermally unstable			(B) volatile or thermally stable		
			volatile or thermally uns	stable		
8.	Pressure remaining constant, at which temperature the volume of a gas will become twice of what it is at 0°C.					
	(A) 546 °C	(B) 200 °C		546 K	(D) 273 K	
9.	The partial pressure of ox	ygen in the lungs is:				
	(A) 100 torr	(B) 116 torr	(C)	150 torr	(D) 159 torr	
10.	When water Freezes at 0°	C, its density decreases due to	0:			
	(A) Cubic structure of ice		(B)	Empty spaces present in the structure of ice		
				Change of bond angle		
11.	Which one of the following is an example of cubic system?					
	(A) Diamond	(B) Borax	(C)	lodine	(D) Graphite	
12.	Brackett series lie in the re	egion:				
	(A) U.V	(B) I.R	(C)	Visible	(D) X-Ray	

Bohr model of atom is contradicted by:

(A) Plank's quantum theory

(C) Heisenberg's uncertainity principle

14. The number of bonds in nitrogen molecule is:

(A) one  $\sigma$  and one  $\pi$ (B) one  $\sigma$  and two  $\pi$ 

(C) 70 pm

(D) two  $\sigma$  and one  $\pi$ 

15. The covalent radius of Cl-atom is: (A) 99.4 pm

(B) 80 pm

(B) dual nature of matter

(C) three  $\sigma$  (sigma) only

(D) Newton theory

(D) 66.4 pm

One calorie is equivalent to:

(A) 0.4184J

(B) 4.184J

(C) 41.84J

(D) 418.4J

17. pH value of vinegar is:

(A) 1.1

(B) 2.0

(C) 2.8

(D) 3.5