.0	(To be	filled	in by the candidat	e) (Ac	ademic Sessions 2017	- 2019	9 to 2020 – 2022)
¿EMISTRY			21-(INTER PART		Time Allowed: 20 Minutes		
2.PAPER – I (Objective Type)			GROUP - II	Maximu	Maximum Marks: 17		
		P	APER CODE =	6486	fy		
fi	our possible answers A, B II that circle in front of t	hat qu	estion with Marker	or Pen	ink in the answer-bo	ch you ook. (think is correct, Cutting or filling
1-1	vo or more circles will res The pH of 10^{-3} mol d	$\frac{\text{uit in}}{\text{m}^{-3}}$	of an aqueous solu	tion of	Hasoa is .	- 17	
1-1	•		_			(D)	1.5
2	(A) 3 Bond angles $\alpha = \gamma = 9$	(B)	2.1 2 + 00° and avec a	(C)	c is for crystal syst	em ·	1.5
2							
	(A) Tetragonal						
3	If the rate equation of a reaction $2A + B \rightarrow \text{Products is}$, rate = $K[A]^2[B]$ and A is present						
	in large excess, then or	der is	:				
	(A) 1	(B)		(C)	3	(D)	Zero
4	Nickel has number of i	sotop	es:				
	(A) 3	(B)	5	(C)	7	(D)	2
5	pH of human blood is	:					
					5.35	(D)	4.35
6	The number of bonds i	n nitr	ogen molecule is:				
	(A) One σ and one π	(B)	One σ and two π	(C)	Three sigma only	(D)	Two σ and one π
7	Pressure remaining cor	nstant	, at which temperat	ure th	e volume of the gas	will	become twice
	of what it is at 0 °C:						
	(A) 546 °C			(C)	546 K	(D)	273 K
8	1 gram formula of Nac	$C\ell$ is	equal to:				
	(A) 58.5 g	(B)	23 g	(C)	35.5 g	(D)	12 g
9	(A) 58.5 g (B) 23 g (C) 35.5 g (D) 12 g 18 g glucose is dissolved in 90 g of water, the relative lowering of vapour pressure is:						
	(A) $\frac{1}{5}$	(B)	5.1	(C)	<u>1</u> 51	(D)	6
10	de-Broglie equation is represented as:						
	(A) $\lambda = \frac{h}{mv}$	(B)	$m=\frac{h}{\lambda}$	(C)	$m=\frac{h}{v}$	(D)	$\lambda = \frac{2h}{mv}$
11	1-calorie is equivalent	to :					
	(A) 0.4184 J		41.84 J	(C)	418.4 J	(D)	4.184 J
12	The temperature of a n		the state of the s				
	(A) 20000 °C		-	(C)	5000 °C	(D)	10000 °C
13	Ionization energy for					(2)	
						(P)	100 Ye Y
	(A) 738 KJ moℓ		238 KJ moℓ	(C)	448 KJ mol	(D)	138 KJ moℓ
14	The velocity of photon						
	(A) Independent of wa		_		ds on wavelength		
	(C) Equal to square of its amplitude (D) Depends on its source						
15	Solvent extraction is an equilibrium process and it is controlled by:						
	(A) Law of mass action (B) The amount of solvent used						
	(C) Distribution law		of so	lute			
16							
	(A) Oxidation potent	ial	(B) Reduction	n pote	ential		
	(C) Redox potential		(D) E.M.F o	fcell			
17	Which of the following	g is a	pseudo solid :				

(B) Glass

(A) CaF₂