Student Roll No					Example Roll No بال من موبائل فون لانا بالكل مع به Paper Code: 73
					2 3 4 7 2 2 200 (1100) (1700)
0	0	0	0	0	MRD-XI-17 (A)
1	①	①	①	①	(Fresh / New Course)
2	<b>②</b>	(2)	2	3	Total Time: 3hrs Total Marks:85
3	<b>(</b>	<b>③</b>	3	3	
<b>①</b>	<b>(4)</b>	<b>①</b>	. ①	•	
6	<b>6</b>	6	(5)	6	0 0 0 0 0
0	0	0	<b>(3)</b>	0	
0	7	0	0	0	① ① ① ● ① CH11C
(8)	(B)	(8)	(8)	$_{f \theta}$	
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	0	•	0	0	0		0 0 0	.0	<b>O</b>				
TLL ROI	LL NO. CO	LUMN I	VISE F	ROM LEI	FT TO K	RIGIIT				PLE SHOWN ABOVE.			40
Time: 2	20min						"SECTION	ON -	· A"			Marks:	
NOTE:	Use Bla	ick/Bh	ie mai	ker for :	shadin ultinle	g only bubb	y one bubb de shading	le for	each (	question. No mark w	ill be aw	arded for Cutting	ž,
Q. 1	Choose	g, over i	rrect (	option i.	e. A,B,C	C, and	D.	-					
Ų. I ∴j,													
,,	-	Angular			(B)		onal planne	r	<b>©</b>	Pyramidal	<b>(</b>	Tetrahedral	
ii.	The bone			rogen mo	olecule	is							
•••	@ (	n ·			മ	1	0		©	2	0	3	
iíi.	The pres	sure re	quired	to comp	ressed	3dm³	of a gas at 1	atm	pressu	re to 1dm³ at constan	t tempera	ature is	
		2 atm			<b>(B)</b>	3 atr	n	1	©	4 atm	0	5 atm	
iv.	One atm	ospheri	c pres	sure is ec	ual to			0		*	_	4 mag - 1 - 13	
		0.0014			0		9 gm/cm³		©	1.426 gm/cm <sup>3</sup>	0	1.538 gm/cm <sup>3</sup>	
٧.	Which of	f the fol	lowing	has the	highest	boili	ng point?		.6		_	001	
	A	CHaF			B	C2H			©	CHCl3	<b>(0</b> )	CCl₄	
vi.	Which or	ne is us	ed for	the meas	ureme	nt of s	urface tens	on of	a liqui	d?		Manometer	
		Stalagn			<b>(B)</b>	Baro	meter		©	Viscometer .	0	Manometer	
vii.	Amorph	ous me	ans							*******		Without motion	
		Withou			B	Witl	rout any for	ces	<b>©</b>	Without transition temperature	<b>(</b>	Without motion	
	-	specific	: snapo JaCl je	) carried r	nit by r	assin	g	ga:	s.	·			
viii.	_	HzS	140113	Carron	(B)	HCl		Ü	©	N <sub>2</sub>	0	O <sub>2</sub>	
1.,	(A) An acid-	hase re	action	involves	the tra			fr	om an	acid to a base.			
ix.		11			(B)	111*			(G)	He	0	He*	
v	An evar	ession l	hat re	lates rate	of reac	ction t	o the conce	ntrati	on of r	eactant is	••		
х.	•	Archan	due on	nation	<b>(B)</b>	Hen	nery's Law		0	Roult's Law	ெ	Ŗate law	
хi.	Arrhenius equation ® Hennery's Law ® Route's Law Windows Reversible solutions in which there is attraction between dispersed phase and solvent is										*******		
A1.	(A)	Hygros			(B)	Hyd	lrophobic		0	Lyophobic	0	Lyophilic	
vii	The een	notic ne	essure	of colloi			s generally		********	•			
xii.	(A)	Small	CJJIII C		<b>(B)</b>	Moi	derately hig	h	(6)	High	0	Zero	
xiii.	_		auid		_					-			
. A	(A)	$\Delta II =$			<b>(B)</b>	$\Delta I$	$I > \Delta E$		<b>©</b>	$\Delta H < \Delta E$	0	$\Delta E = 0$	
xiv.				g is a str	_	ctroly	tes.				,		
A14.		.Ammo		, U		Car	bonic acid		<b>©</b>	Potassium iodide	. (0)	Acetic acid	
	<b>(A)</b>	hydrox	xide		(B)						_		•
xv.	Mass in	gram o	ıf 5-me	oles of H≥					_	10		90gm	
	<b>(A)</b>	3.5gm			(B)	5ც։			୍ ⊚ୁ	18gm	. •	yogin ,	
xvi.	Lyman	series c	of spec	tral line a	ppear			por	tion of	spectrum.		x-rays	
	(A)	U. V			(1)	I. R			©	Visible	0	A-luyo	
xvii.	Shape o			ands on t		e of th	e	qı		number.	6	Spin	
	(A)	Princi	ple		. (b)		muthal		(©	Magnetic	0	эриг	
xviii.	For wh	ich of tl	ie folk	owing spo			heory does	not a		lle*1	<u></u>	Li**	
	(i)	11			(B)	11*			©	He.	0	a.15	

## MRD-XI-17(A)

## CHEMISTRY- (Part-I) (Fresh / New Course)

Time Allowed: 2:40 Hrs

Section - B & C

Total Marks: 67

## "Section - B"

Marks: 40

- Q. 2 Write short answer of any TEN of the following parts. Each part carries equal marks.
  - (i) What is mole? A person drinks a bottle of 2kg of H<sub>2</sub>O, calculate the number of moles.
  - (ii) The e/m ratio of electron is  $1.75 \times 10^{11} c/kg$  and charge (c) is equal to  $1.602 \times 10^{-19} C$ . Calculate the mass of electron.
  - (iii) Write note on the principle quantum number (n).
  - (iv) Write any four properties of cathode rays.
  - (v) What are the short coming of Bohr's atomic model?
  - (vi) Describe dipole moment.
  - (vii) Why do real gases deviates from ideal behavior?
  - (viii) Discuss evaporation of liquid causes cooling.
  - (ix) Compare covalent crystal and molecular crystals.
  - (x) What are conjugate acids and bases?
  - (xi) Explain the effect of temperature on the rate of a reaction.
  - (xii) Discuss that why work done has positive and negative values?
  - (xiii) A solution of sugar is non-conductor but hat of table salt is a good conductor. Why?

## "Section - C"

Marks: 27

NOTE	Aftempt any i make questions, each question carries equal maries.	
Q. 3:	a) Describe discharge tube experiment.	(5)
	b) Discuss Moseley's law.	(4)
Q. 4:	a) What are significance of molecular orbital theory?	(5)
·	b) What is viscosity? Write factors effecting viscosity.	(4)
Q. 5:	a) What is chemical equilibrium? Discuss its different types with examples.	(5)
<b>4</b> , 21	b) Derive the Henderson-Hasselbalch equation for calculating the pH of Buffer S	olution.
Q. 6:	a) Discuss the transition state theory of reaction rate.	(5)
	b) Write note on Primary and Secondary batteries.	(4)

\*\*\*\*\*\*\*BEST OF LUCK\*\*\*\*\*\*