COMMON HALF YEARLY EXAMINATION - 2025

	Star	ndard XI	Reg.No.	
	CHE	MISTRY	G C C	100
Time: 3.00 hrs		Part – I		Marks: 70 15 x 1 = 15
 The correct increases 	sing order of the ox	dation state of sulphi	ur in the anions	
SO ₄ 2-, SO ₃ 2-, S ₂ 0	O_4^{2-} , $S_2O_6^{2-}$ is	b) $SO_4^{2-} < S_2O_4^{2-}$ d) $S_2O_6^{2-} < S_2O_4^{2-}$		
. a) SO ₃ ²⁻ < SO ₄ ²⁻	$< S_2O_4^{2-} < S_2O_6^{2-}$	b) $SO_4^{2-} < S_2O_4^{2-}$	$- < S_2O_6^{2-} < SO$	32-
c) $S_2O_4^{2-} < SO_3^{2-}$	$-<\bar{S}_2O_6^2-<\bar{S}O_4^2-$	d) $S_2O_6^{2-} < \bar{S}_2O_4^{2-}$	2- < SO ₄ 2- < SO	3
z. The maximum nu	miger of electrons if	i a substiell is given b	y the expression	
a) 2n ²	b) 2l + 1	c) 4l + 2	d) none of thes	e .
		an element with atomic		
a) bibibiium	b) bididium	c) didibium	d) bibibium	
 Tritium nucleus co 	ontains			
a) 1p+ 0n	b) 2p+1n	c) 1p+2n	d) none of thes	se ·
The name 'Blue Jo				
a) CaH ₂	b) CaF ₂	c) Ca ₃ (PO ₄) ₂	d) CaO	
Maximum deviation	on from ideal gas is	expected from		
a) $CH_{4(g)}$ 7. ΔS is expected to	b) NH _{3(a)}	c) H _{2(a)}	d) N _{2(g)}	
7. ΔS is expected to	be maximum for th	e reaction	-(9/	
a) $Ca_{(s)} + \frac{1}{2}O_{2(s)}$	$_{\rm g)} ightarrow {\sf CaO}_{(\rm s)}$	b) $C_{(s)} + O_{2(g)} \rightarrow$	CO _{2(g)}	
percentage of initi both forward and a) 33%	al concentration of reverse reactions a b) 66%	c) (33) ² %	ilibrium if rate co d) 16.5%	nstant for
According to Rao equal to	ults law, the relativ	e lowering of vapour	pressure for a s	olution is
a) mole fraction of	solvent	b) mole fraction o	fsolute	
c) number of mole10. Which of the follow		d) number of mole		
	b) (CH ₃) ₂	c) BH ₃	d) NH ₃	
3		THE RESERVE OF THE PARTY OF THE	4) 1113	
11. The IUPAC name	of the compound	CH ₃ - CH - COOH is OH	A HAMA	
a) 2- Hydroxy proj	pionic acid	b) 2-Hydroxy proj	nanoic acid	
c) Propan-2-ol-1		d) 1-carboxyetha		
12. Which of the grou			lioi	A- 18 0
a) CH ₃ -	b) CH ₃ -CH ₂ -	c) (CH ₃) ₂ -CH-	d) (CH ₃) ₃ -C-	
13. C ₂ H ₅ Br + 2Na dr	y ether C4H10 + 2N	laBr.		
A PART OF THE PART	AND ADDRESS OF THE PARTY OF THE	which of the following	2	
a) Reimer-Tiemar		b) Wurtz reaction		7.15
c) Aldol Condensa	Service Control of the Control of th	d) Hoffmann reac		
		a) Hollinalii leac	uon .	

- 35. a) Briefly give the basis for Pauling's scale of electronegativity. b) Derive the values of critical constant in terms of Vander Waals Constant.

36. a) State the various statements of Second law of Thermodynamics.

b) Derive the relation between Kp and Kc.

37. a) Draw Mo diagram of CO and calculate its bond order. (OR) b) Describe the classification of organic compounds based on their structure.

38. a) Starting from CH₃MgI, How will you prepare the following?

(ii) Acetone -(iii) Methyl cyanide (OR) i) Acetic acid

b) How is acid rain formed? Explain its effect.