 ΔG and E°_{cell} for a spontaneo (a) positive, negative 	ous reaction will be: (b) negative, negative	(c) negative, positive	(d) positive, positive
		(c) inguire, pesitive	(a) Postavo, Postavo
Sol. (c) nego	tive, positive		100
5. Which of the following is af	fected by catalyst?		1
(а) ДН	(b) ΔG	(c) E _a	(d) ΔS
Sol. (c) Ea			
6. The order of the reaction H ₂	$(g) + Cl_2(g) \xrightarrow{hv} 2HCl(g)$	is:	1
(a) 2	(b) 1	(c) 0	(d) 3
Sol- (c) 0			
7. The most common and stabl	e oxidation state of a Lanthano	id is:	1
(a) +2	(b) +3	(c) + 4	(d) + 6
Sol. (b) +3	•		
8. The compounds $[Co(SO_4) (NH_3)_5]$ Br and $[Co(Br) (NH_3)_5]$ SO ₄ represent:			
(a) optical isomerism	(b) linkage isomerism	(c) ionisation isomerism	(d) coordination isomerism
Sol. (c) ionisa	tion isomerism		
9. The synthesis of alkyl fluori			1
(a) Free radicals	(b) Swartz reaction	(c) Sandmeyer reaction	(d) Finkelstein reaction
Sol. (b) Swart	z reaction		
10. In the reaction $R - OH + HCl \xrightarrow{ZnCl_2} RCl + H_2O$, what is the correct order of reactivity of alcohol?			
	(b) $1^{\circ} > 3^{\circ} > 2^{\circ}$	(c) $1^{\circ} > 2^{\circ} > 3^{\circ}$	(d) $3^{\circ} > 1^{\circ} > 2^{\circ}$
Sol. (a) 1° 4 2°	43°		
11. CH ₃ CONH ₂ on reaction with	n NaOH and Br ₂ in alcoholic m	edium gives:	1
(a) CH ₃ COONa	(b) CH ₃ NH ₂	(c) CH ₃ CH ₂ Br	(d) CH ₃ CH ₂ NH ₂
Sol. (b) CH3NH	9		
12. Which of the following is lea	ast basic?	•	1
(a) (CH ₃) ₂ NH	(b) NH ₃	(c) NH ₂	(d) (CH ₃) ₃ N
Sol. (c)	NU		
	→NH ₂		