Section II Chemistry

31. Lassaigne's test is used for the detection of nitrogen (a) PbO by use of which compound? (b) NH₂NH₂CI (d) C₈H₅NHNH₂HCI (a) NH₂CONH₂ (c) NH,CONHNH,HCI with H,O? (a) Na, Na 2O2 (c) Ca, CaH2 32. The size of nucleus is (c) 10⁻³ m (d) 10⁻¹⁵ m (b) 10⁻⁹ m (a) 10⁻¹⁰ m reacts with gas released, when zinc hydrochloric acid. (a) Fe (b) Chlorine (a) Hydrogen chloride (d) Oxygen (c) Hydrogen directly? 34. Which is not electrophilic in nature? (a) Na (d) H,O (c) NO₃ (b) Cl (a) BH₃ 35. Reaction (a) Cl-CH2OH CH, = CH2 pH of CH₂OH (a) 3 molecule M and reagent R respectively are (a) CH₂CI—CH₂OH, aq. NaHCO₃ (b) CH₃CH₂OH, H₂SO₄ (a) 5.3(c) CH₃CH₂CI, NaOH (d) CH2-CH2 heat (a) K 36. The compound formed as a result of compound (c) Fe -CH₃ reacts with KMnO₄

(b) CH3COCH3

(d) CH₃COCH₃ + CH₃CHO

CH₃ H

(a) CH₃COCH₃ + CH₃COOH (c) CH₃CHO + CO₂

- 37. Which metal oxide cannot be reduced by carbon? (c) Fe₂O₃ (b) Al₂O₃
- 38. Which pair gives the same gaseous product by reacts (b) K, KO2 (d) Ba, BaO,
- 39. Which metal react with very dilute HNO3 to evolve hydrogen gas? (c) Mg
- 40. Which of the following does not react with O2 (d) S (c) P (b) CI
- 41. Which of the following species contains 4 lone pair? (d) Mg (c) Na (b) O
- 42. A solution with H⁺ ion concentration of 0.01 M has a (c) 2 (b) 1
- 43. The pH of stomach fluids is approximately. (d) 8.2(d) 7.4 (b) 1.4
- 44. Which element reacts with chlorine and forms more than one compounds? (b) Zn (d) Ca
- 45. Which increasing order of electronegativity of the given element is correct? (b) N, Si, C, P (a) Si, P, C, N (d) P, Si, N, C (c) C, N, Si, P

47. \	Which (a) F	elec													-				5	
47. V			(0)		10	V V19-			54	• Which compound is an isomer of 2-methylpropane?								_		
	Which mirror	of th	ne fol	lowin	g is u	sed fin	ishin	g silve	ring of		(c) n-	(c) n-hexane (d) n-propane								
	a) Pb		(b) A	Aa	10	Na		(d) Al		55	. Whi	ch C-	-C b	ond le	ength	is mir	nimum	in t	the	
	Which of following makes liquid soap? (a) Ca (b) K (c) Na (d) Li Which gas convert methanol (CH ₃ OH) to acetic acid (CH ₃ COOH) at high temperature and										following compounds? (a) C ₂ H ₄ (b) C ₂ H ₆ (c) CH ₄ (d) C = C									
CE	Which (CH ₃ CO) atalyst a) N ₂	gas of OH) s?	onve at hi	g., cc	mpera	CO (CH ₃ C	OH) to	acetic ressure	56	What was the first synthetically produced organic compound? (a) NH,CONH ₂ (b) C,H,OH (c) CH,COOH										
(a)	xygen ompour 0)N ₂ O ₃	nd is	(b) N	,0,	(c)	NO.	ain n	rmula	of the	57.	elect	ron ha	nii hav	stimat e aron	es wh natic pr (b) (4	ether roperti $\pi + 2n$ $\pi + 2n$	a nlas	nar ri umber	ing r of	
(a)	7 g of any gr) 32		(b) 10	6	(c)	8	6	d) 24	how	58.	Whie	ch of th	ne follo	wing n		e is an	optical	lly act	ive	
2. In (a)	HCH	O, o	(b) +	ion n	umber (c)	of car	bon is	3		(c) 1-l	chlorob			(d) 4	propand hydroxy	heptan				
3. If	mole	cular	r we	eight.	of K	MnO	in 1	d) + 4 M the	n its	59.	A str (a) an	ong ba nine	ase can (b) ke	abstratone	act and	α-hydr kene	ogen fi			
(a)		nt w	(b) $\frac{M}{3}$	t m ac	(c)	iediun	n wou	ld be $\frac{M}{7}$		60.	How (a) 1	many	sigma (b) 2	bonds	in CH,		(d) 4			
1.	(d) 3	2.	(d)	33.	(c)	34.	(b)	35.	(a)	36.	(a)	37.	(b)	38.	(c)	39.	(c)	40.	T	
-		2.	(c) (a)	43. 53.	(b) (c)	44. 54.	(c) (a)	45. 55.	(a) (d)	46. 56.	(c)	47. 57.	(b)	48.	(b)	49. 59.	(b)	50. 60.	1	

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31.	(d)	32.	(d)	33.	(c)	34.	(b)	35.	(a)	36.	(a)	37.	(b)	38.	(c)	39.	(c)	40.	(b)
41.	(a)	42.	(c)	43.	(b)	44.	(c)	45.	(a)	46.	(c)	47.	(b)	48.	(b)	49.	(b)	50.	(b)
51.	(d)	52.	(a)	53.	(c)	54.	(a)	55.	(d)	56.	(a)	57.	(c)	58.	(a)	59.	(b)	60.	(a)
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