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2.v. Write structural formula of the follow	ving compounds.	www.manabadi.co.in	www.manabadi.co.in
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%8. Give two chemical equilibrium react	tions for which $K_p \le K$	<u>cwww.manabadi.co.in</u>	www.manabadi.co.in
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9. Calculate the weight of 0.1 mole of s		www.manabadi.co.in	www.manabadi.co.in
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10. The empirical formula of a compound is CH<sub>2</sub>O. its molecular weight is 90. Calculate the molecular formula of the compound.

## SECTION – B

II.	Note: i) Aı	$6\times 4=24$			
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13n	Discuss the a	www.manabadi.co.in pplication of Lechatelie	www.manabadi.co.in er's principle for the in	www.manabadi.co.in ndustrial synthesis of a	www.manabadi.co.in mmonia and sulphur
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<u>www.m</u>	What is a con	njugate acid – base pair	? Illustrate with exam	ples: manabadi.co.in	www.manabadi.co.in
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www.m	Note: i) An	swer any <b>TWO</b> of the	he following quest	ions www.manabadi.co.ip	<8 ≠ 16 anabadi.co.in
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<u>www.m</u> 21.	How are the	www.manabadi.co.in quantum numbers $n$ , $l$	$m_l$ and s arrived at?	www.manabadi.co.in Explain the significan	www.manabadi.co.in ace of these quantum
	numbers.				



MARCH di-c 2025 v. manabadi.co.in **Board of Intermediate Education** Chemistry 1st Year nabadi.co.in www.m**SE**ali-edi <u>www.manabadi.qime ww3v.Hpsabadi.co.in</u> www.matotalliMairks wv60nMnabadi.co.in www**SECTION** + A www.manalidiAnswervallathe following questions www.manabadi.10x2\pi20Manabadi.co.in Why is gypsum added to cement? www.manabadi)co.in Name any two man-made silicates? www.manaba**2**i) www.manabada) What is pH? Calculate the pH of 0?001 M HCl solution? Calculate kinetic energy of 2 moles of Nitrogen at 27°C? 4) Give an account of biological importance of Na<sup>+</sup> and K<sup>+</sup> ions? 5) Assign Oxidation number to the underlined elements in each of 6) the following species: b) K<sub>2</sub>MnO<sub>4</sub> a) NaHSO<sub>4</sub> How does Graphite function as a lubricant? manabagi co.in What is chemical Oxygen Demand (COD)? What is PAN? What effect is caused by it? anaba 10) in Write the structures of the following compounds: co.in www.manabadi.co.in a)v3y3y4y5bartetramethyl Heptane b) 2 methyl pent-1-enew.manabadi.co.in SECTION - B II Answer any six of the following questions www.manabagli.co.in Explain the hybridisation involved in SF<sub>6</sub> molecule? www.manab<mark>12</mark>) Deduce a) Boyle's Law b) Charle's Law from kinetic gas equation? 13) A carbon compound contains 12?8% carbon, 2?1% hydrogen, 5?1% bromine? The molecular weight of the compound is 187?9? Calculate the molecular formula? manabagi 14) State and explain the Hess's law of constant Heat summation? www.manabagico.in Discuss the application of Le-Chatlier's principle for the industrial synthesis of Ammonia? anabadi.co.in Write a few lines on the utility of hydrogen as a fuel? www.manabadi.co.in <u>www.manabadijco.in</u> Explain Borax bead test with a suitable example? <u>www.manabagi)co.in</u> Explain the formation of Coordinate Covalent bond with one nabadi.co.in example?adi.co.in



www.maIIIaAnswernanyatwo.lof.the.following@questionsmanabadi2ox 8 = 16Mabadi.co.in www.manal 19) co. in How are the quantum numbers in I and  $m_1$  arrived at? Explain the discoint www.manabadi.co.insignificance.of these quantum numbers?w.manabadi.co.in 20) Define  $IE_1$  and  $IE_2$ ? Why  $IE_2 > IE_1$  for a given atom? Discuss the factors that effect IE of an element? www.manabadi.c<u>o.in</u> www.manabadi. 21) www.manabadi. How do we get benzene from acetylene? Give the corresponding equation? Explain the halogenation, alkylation, nitration and <u>/w.manabadi.co.in</u> sulphonation of benzene? www.manabadi.cd**Powered.iby**nabadi.co.in www.manabadi.co<u>.in</u> VAGDEV JUNIOR COLLEGE IIT-NEET ACADEMY MAHABUBNAGAR, 91330 05511