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## APPLIED CHEMISTRY-I 1st Exam/Common/6052/Dec'22 (For 2018 Batch Onwards)

	(For 2018 Batch Onwards)
<b>Duration: 3</b>	Hrs. M.Marks:75
	SECTION-A
ii. E iii. F iv. T v vi. T vii. II viii. G ix x. C b) State xi. Ic xiii. V xiv. S	the blanks.  True or False.  In grant and particles.  True or False.  In general formula particles.  In general formula part
	SECTION-B
a. Calamb. Diffic. Who d. Defice. Defice. Defice. Defice. Defice. Giver it. Who m. Giver it. Giver it. Giver it. Who m. Giver it. Giver	tany ten questions.  culate the percentage composition of Ca, O and H in Ca (OH) <sub>2</sub> . Given Atomic mass of Ca = 40 amu, O = 16 a and H = 1 amu.  cerentiate between sigma and pi bond.  at are the advantages of the long form of periodic table?  ne isotopes and isobars.  ne molarity. Give its units.  ne pH. What is the pH of an acidic solution?  te a short note on buffer solutions.  Imple of hard water is found to contain 204 mg of CaSO <sub>4</sub> / L. What will be its hardness in ppm?  any three disadvantages of using hard water for industrial purposes.  at is electrochemical cell? Show the chemical reactions taking place at each electrode.  at the functional group of alcohols, ketones and amines.  at the IUPAC nomenclature of CH <sub>3</sub> -CH <sub>3</sub> , CH <sub>3</sub> -CH <sub>2</sub> -CI and CH <sub>3</sub> -NH <sub>2</sub> .  SECTION-C
i. Sta ii. Wh iii. Wh a b	tany three questions.  3x10=30  e the postulates of Bohr's model of atom. What are the limitations of Bohr's model of atom?  at is hard water and soft water? Give one method to remove permanent hardness.  at are the essentials of a chemical equation? Balance the following chemical equations: $Fe_3O_4 + H_2 \longrightarrow Fe + H_2O$ $K_2SO_4 + MnSO_4 + H_2O + O$
	H <sub>3</sub> PO <sub>3</sub> → H <sub>3</sub> PO <sub>4</sub> + PH <sub>3</sub> ne hybridization. Explain the shape of CH <sub>4</sub> , BF <sub>3</sub> and BeCl <sub>2</sub> on the basis of hybridization. ne electrolysis. Give a detailed account of Faraday's laws of electrolysis.