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M.Tech. II Semester Degree Examination, September/October - 2022 MINERAL PROCESSING

21MNP2C5L: Ore Genesis and Ore Microscopy

Time: 3 Hours Maximum Marks: 70 Instructions: (i) Answer **any 5** of the following. Question number 1 is compulsory. (ii) 1. Discuss the magmatic differentiation of ore formation. 14 2. Explain hydrothermal deposits. 14 3. Answer the following: With a neat diagram, explain the Vicker's Hardness Test and write its test 7 procedure. Explain the procedure for preparation of polished sections. 7 4. Explain oxidation and supergene enrichment process of ore genesis and, mention 14 the factors affecting the process of oxidation and supergene enrichment. 5. What do you mean by Residual Concentration? Explain the genesis of Bauxite 14 deposits. Define metamorphism and explain any one metamorphic ore deposit. 14 6. 7. With a neat ray diagram explain different parts of an Ore microscope. 14 8. What are the methods to determine hardness of ores under ore microscope? 14 Describe.