## 21MNP2C5L

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Sl. No.

## M.Tech. II Semester Degree Examination, Sept./Oct. - 2024 MINERAL PROCESSING

## Ore Genesis and Ore Microscopy

(NEP)

Tim	Time: 3 Hours Maximum M		
Not	e:	(i) Question No. 1 is Compulsory.  (ii) Answer any five of the following.	
1.	(a) (b)	List the factors controlling residual concentration.  Explain Reflectance and Bireflectance.	7 7
2.	(a) (b)	Explain the Ore deposits associated with Kimberlite. Write a note on Komatiites.	7 7
3.	(a) (b)	Explain the Genesis of Indian Iron ore deposits.  Discuss Uranium and Vanadium deposits and their distribution.	7 7
4.	(a) (b)	With neat sketch, explain Oxidation and Supergene enrichment.  Explain ore deposit associated with Graphite.	7 7
5.	(a) (b)	Discuss the different textures that are studied under microscope. How ore microscopy helps in economic geological studies?	7 7
6.	(a) (b)	Write a note on nonferrous ores.  Explain the process of formation of Bauxite and Nickel.	7 7
7.	(a) (b)	Explain the ore deposit associated with Kyanite and Garnet.  Explain the process of Residual and Mechanical Concentration.	7 7
8.	(a) (b)	With relevant diagram, explain parts of an ore microscope. Write a note on hydrothermal deposits.	7 7