

**II B.Tech II Semester Supplementary Examinations, April/May 2005**  
**MINERAL DRESSING**  
**(Metallurgy & Material Technology)**

**Time: 3 hours**

**Max Marks: 70**

**Answer any FIVE Questions**  
**All Questions carry equal marks**

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1. (a) What is sampling? What advantages are derived by sampling ores?  
(b) Explain any two methods of sampling.
2. (a) Draw a neat sketch of a ball mill and explain how reduction in size of a mineral takes place in it?  
(b) Compare it with rod mill.
3. (a) What is sizing? Give the various types of scales selected in industry.  
(b) Describe how sieve analysis is done.
4. (a) What are the factors which affect the concentration of tabling?  
(b) Draw a neat sketch of Wilfly's table and explain its working.
5. Write about:
  - (a) Vessel wall effect in the movement of solid particles in fluids.
  - (b) Lessing process of Heavy fluid separation concentration.
6. (a) With the aid of a neat sketch explain froath floatation process.  
(b) What advantages this process is having compared to other processes?
7. (a) What is the principle of Heavy media separation?  
(b) Explain industrial process of heavy media separation.
8. Write short notes on:
  - (a) Gyratory crushers
  - (b) Selectivity Index
  - (c) Chemicals used in froath floatation.

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