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Code No: 154SJ

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B.Tech II Year II Semester Examinations, November/December - 2020

MINERAL PROCESSING

(Metallurgy and Materials Engineering)

Time: 2 hours

Max. Marks: 75

Answer any five questions

All questions carry equal marks

1. What is scope and objectives of mineral processing? Explain different sampling methods. [15]
2. What is the difference between Batch & Continuous grinding? Explain Batch grinding with a figure? [15]
3. Explain the study of different laboratory sizing techniques. And also explain the reporting of sizing data. [15]
4. What are different types of classifiers? Explain Rake classifier with figure and an example. [15]
5. What is heavy media separation? Explain the flow chart of heavy media separation with neat flow chart. [15]
6. What is magnetic separation? Explain how can you separate iron mixed with sand particles with magnetic separation process. [15]
7. Explain the study of stratification on a table. Explain the principle of shaking tables. [15]
8. State the principle of flotation. Explain what are the factors affecting flotation? [15]

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